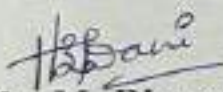


Department of Information of Technology

Web Technologies Lab Manual

III B. Tech-II Semester
(Academic Year 2018-19)

Prepared by

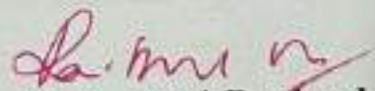

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**G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(FOR WOMEN)**

DEPARTMENT OF INFORMATION TECHNOLOGY

Web Technologies Lab

INDEX

Class: III B.Tech – II Semester

S.NO	EXERCISES
1	Install the following on the local machine <ul style="list-style-type: none">• Apache Web Server (if not installed)• Tomcat Application Server locally• Install MySQL (if not installed)• Install PHP and configure it to work with Apache web server and MySQL (if not already configured)
2	Write an HTML page including javascript that takes a given set of integer numbers and shows them after sorting in descending order.
3	Write an HTML page including any required Javascript that takes a number from one text field in the range of 0 to 999 and shows it in another text field in words. If the number is out of range, it should show “out of range” and if it is not a number, it should show “not a number” message in the result box.
4	Write an HTML page that has one input, which can take multi-line text and a submit button. Once the user clicks the submit button, it should show the number of characters, words and lines in the text entered using an alert message. Words are separated with white space and lines are separated with new line character
5	Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).
6	Create an XML document that contains 10 users information. Write a Java program, which takes User Id as input and returns the user details by taking the user information from the XML document using (a) DOM Parser and (b) SAX parser

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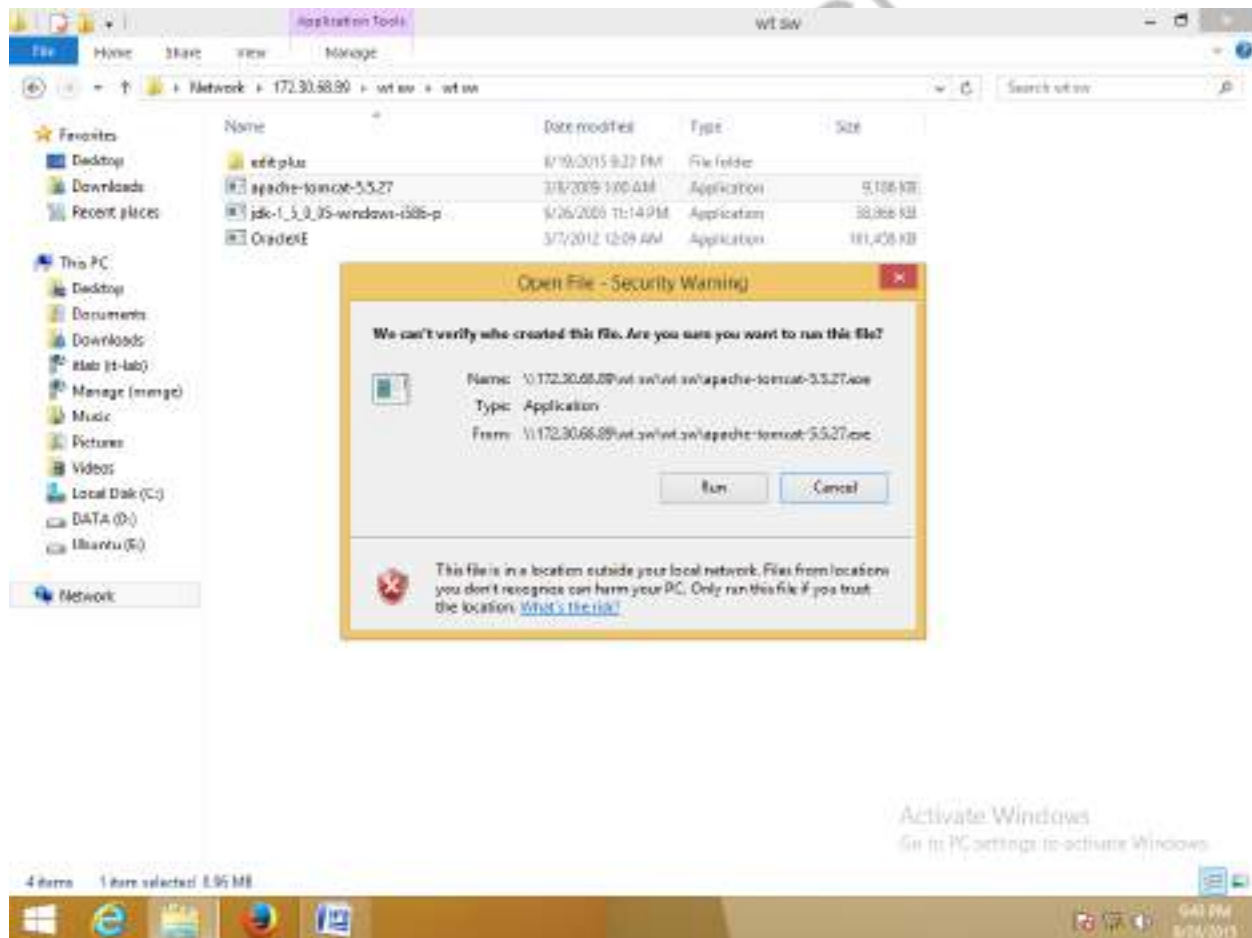
Web Technologies Lab

S.NO	EXERCISES
7	<p>Implement the following web applications using (a) PHP, (b) Servlets and (c) JSP:</p> <ol style="list-style-type: none">i. A user validation web application, where the user submits the login name and password to the server. The name and password are checked against the data already available in Database and if the data matches, a successful login page is returned. Otherwise a failure message is shown to the user.ii. Modify the above program to use an xml file instead of database.iii. Modify the above program to use AJAX to show the result on the same page below the submit button.iv. A simple calculator web application that takes two numbers and an operator (+, -, /, * and %) from an HTML page and returns the result page with the operation performed on the operands.v. Modify the above program such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB, it returns the value that was previously computed (from DB) or it computes the result and returns it after storing the new query and result in DB.vi. A web application takes a name as input and on submit it shows a hello <name> page where <name> is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank You <name> message with the duration of usage (hint: Use session to store name and time).vii. A web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with "Hello <name>, you are not authorized to visit this site" message, where <name> should be replaced with the entered name. Otherwise it should send "Welcome <name> to this site" message.viii. A web application for implementation: The user is first served a login page which takes user's name and password. After submitting the details the server checks these values against the data from a database and takes the following decisions. If name and password matches, serves a welcome page with user's full name. If name matches and password doesn't match, then serves "password mismatch" page. If name is not found in the database, serves a registration page, where user's full name is asked and on submitting the full name, it stores, the login name, password and full name in the database (hint: use session for storing the submitted login name and password).ix. A web application that lists all cookies stored in the browser on clicking "List Cookies" button. Add cookies if necessary.

Apache Tomcat Installation and Testing

1. Install the JDK. Make sure JDK 1.4 or 1.5 is installed and your PATH is set so that both "java -version" and "javac -help" give a result.
2. Install the Apache Tomcat 5.5 by the following steps
3. Download the .exe installer from <https://tomcat.apache.org/>
4. Run the apache-tomcat-5.5.27 .exe file using following steps:

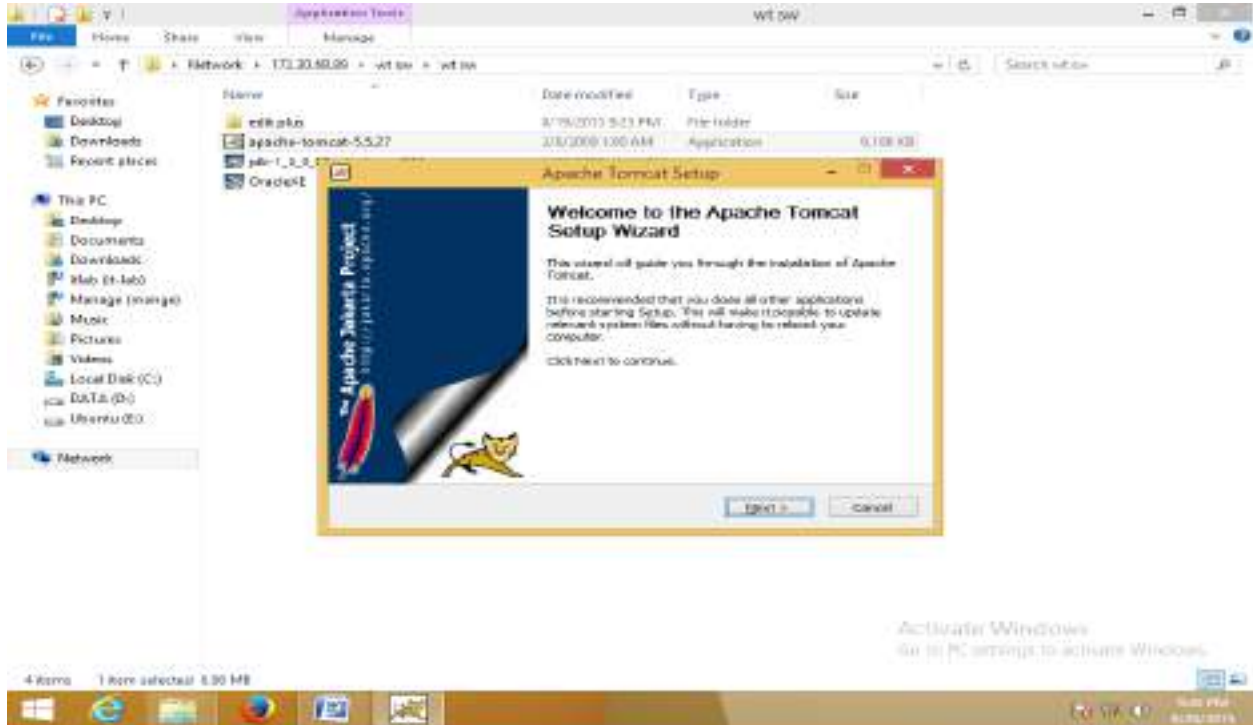
Double click on the .exe file



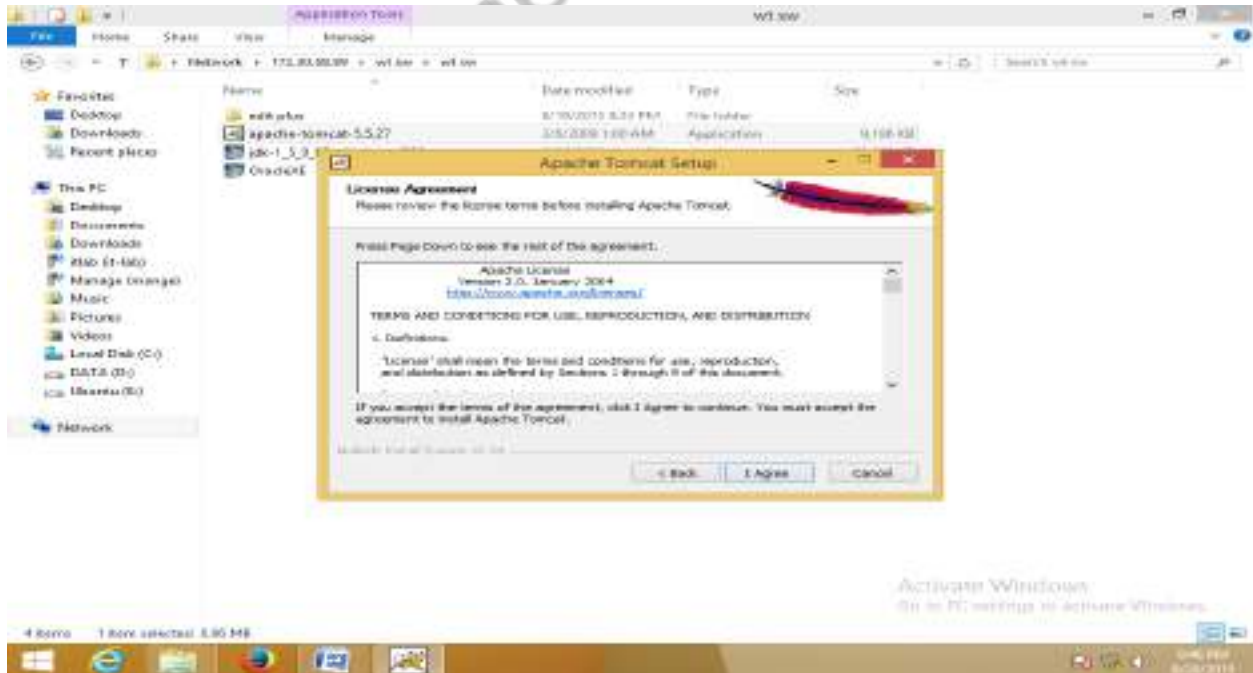
Click on Run

Opens a window with dialog box. Click on yes

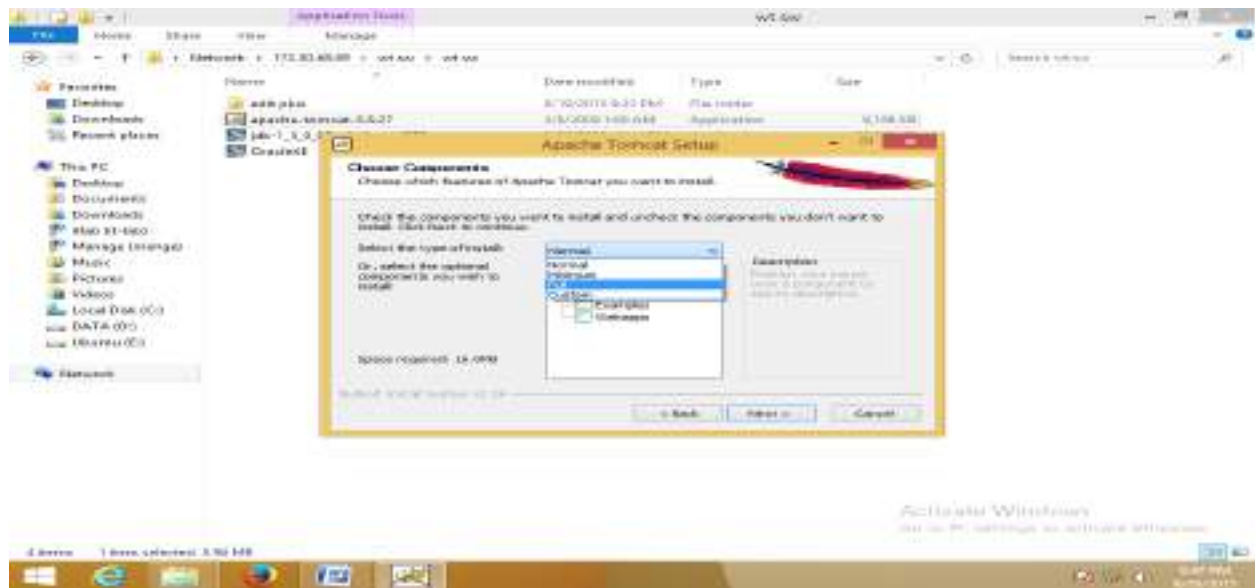
It opens a window as shown:



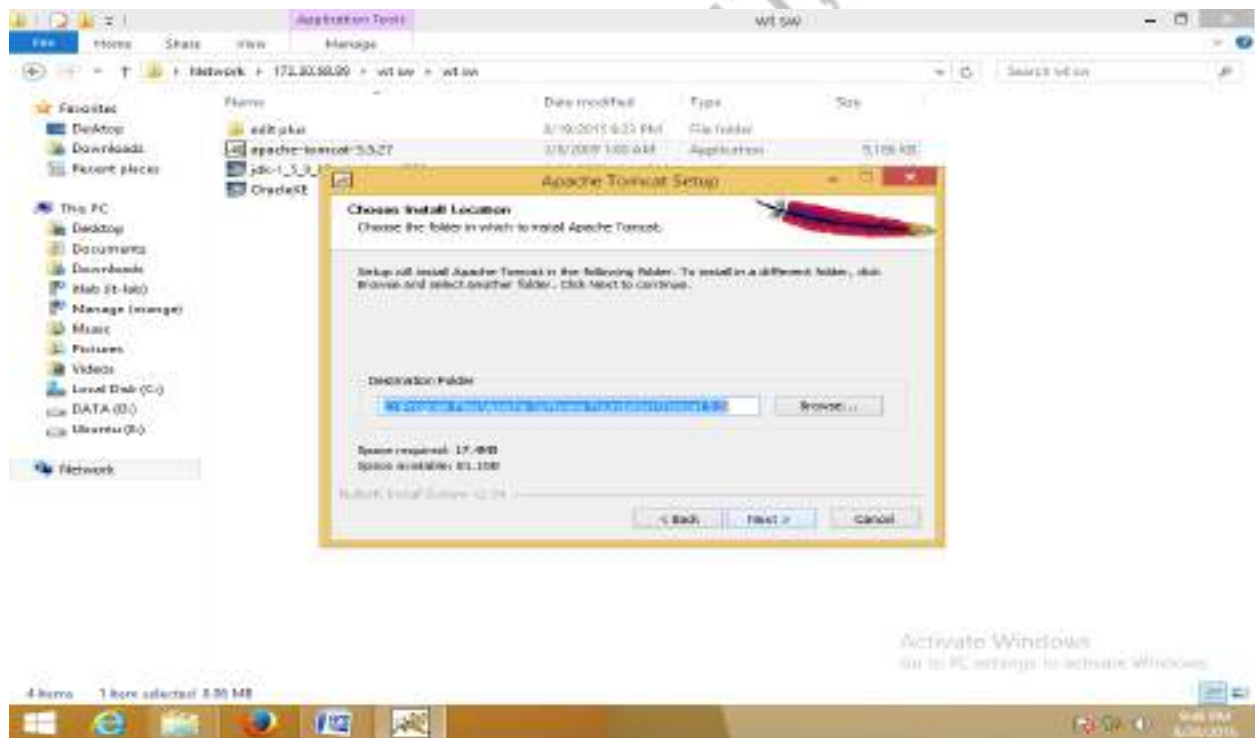
Click on Next



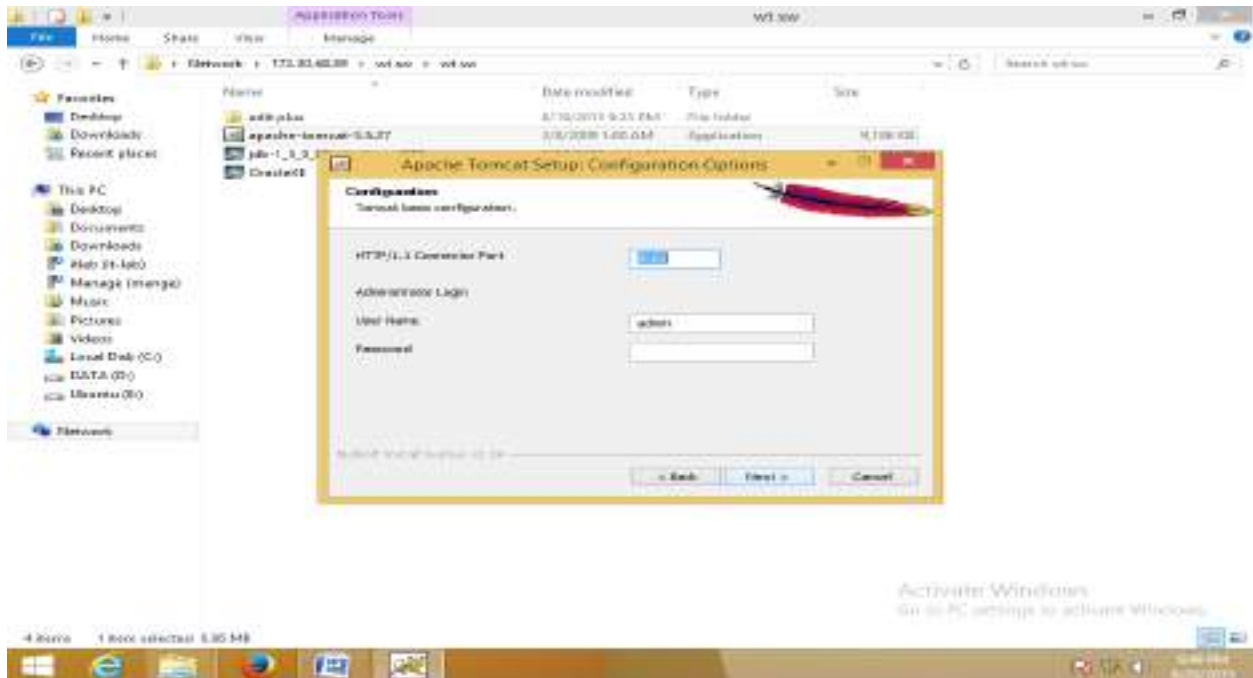
Click on “I Agree” button to accept the terms of Tomcat



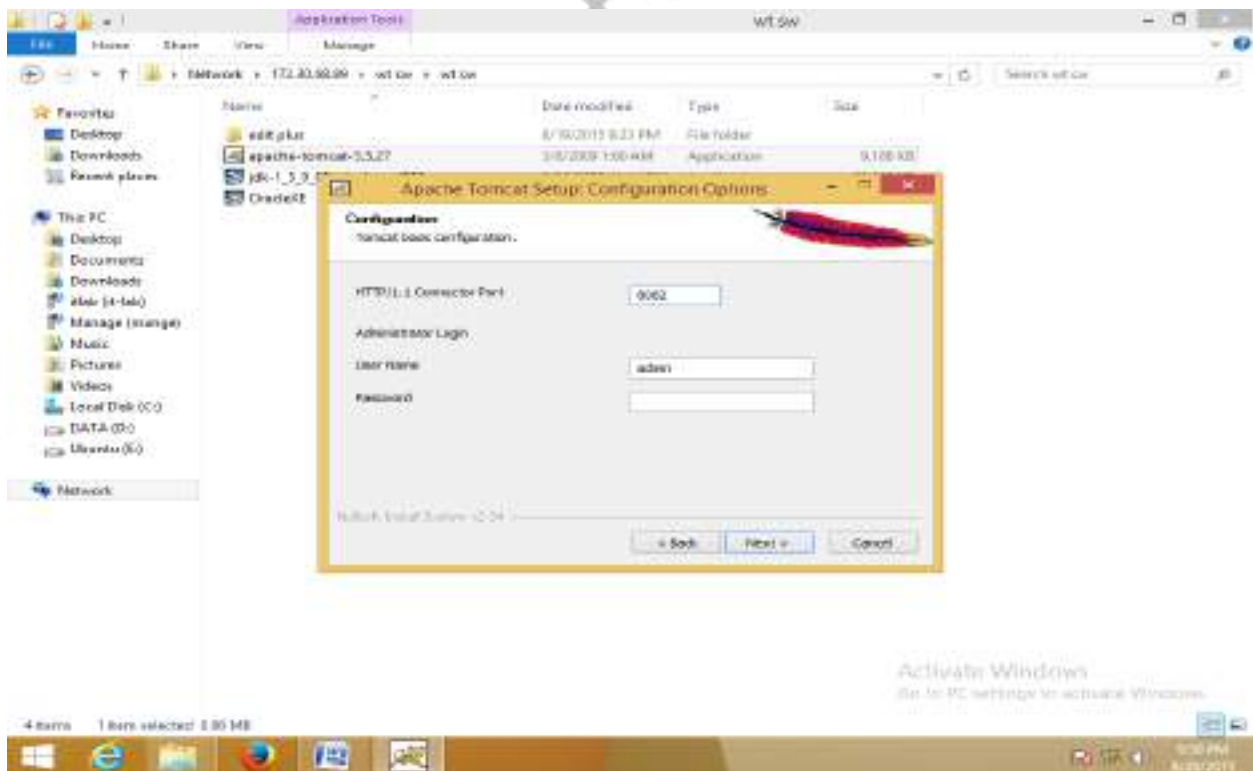
Select Full from drop down list as shown above and click on Next



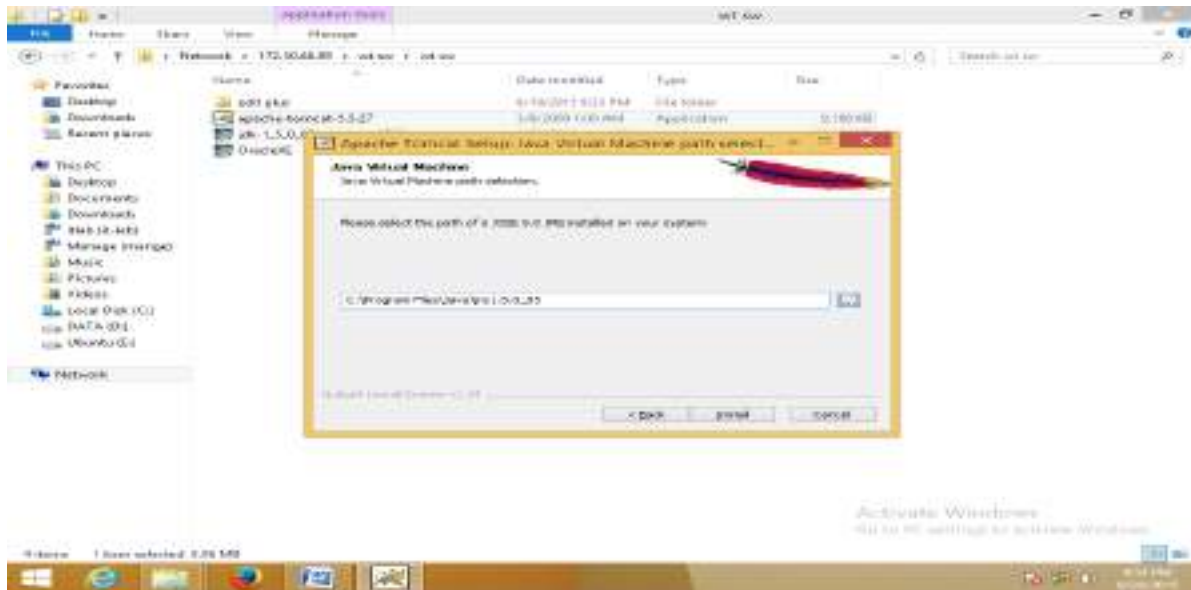
Provide the path to the destination folder and click on Next



The default port number is 8080 for Apache Tomcat server. Change the port number to 8082. Changing the port number is required if there is another server running on the same system with same port number. Suppose you have installed oracle, you need to change the port number of apache tomcat because both have the default port number 8080.



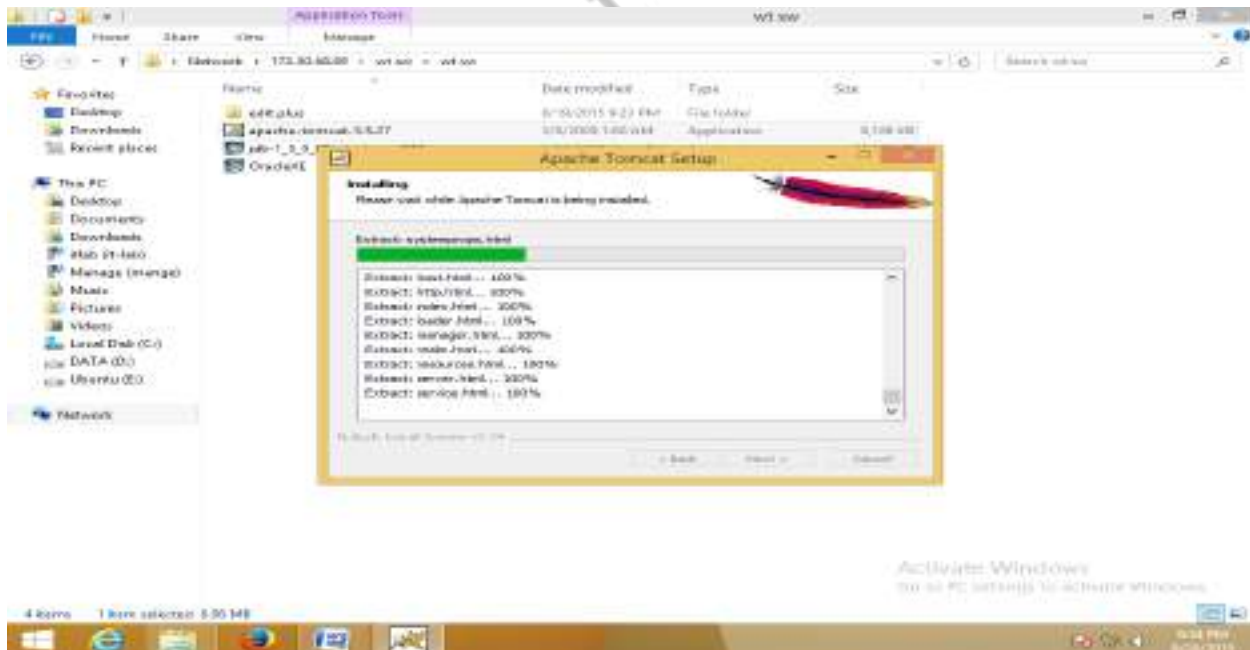
Click on Next

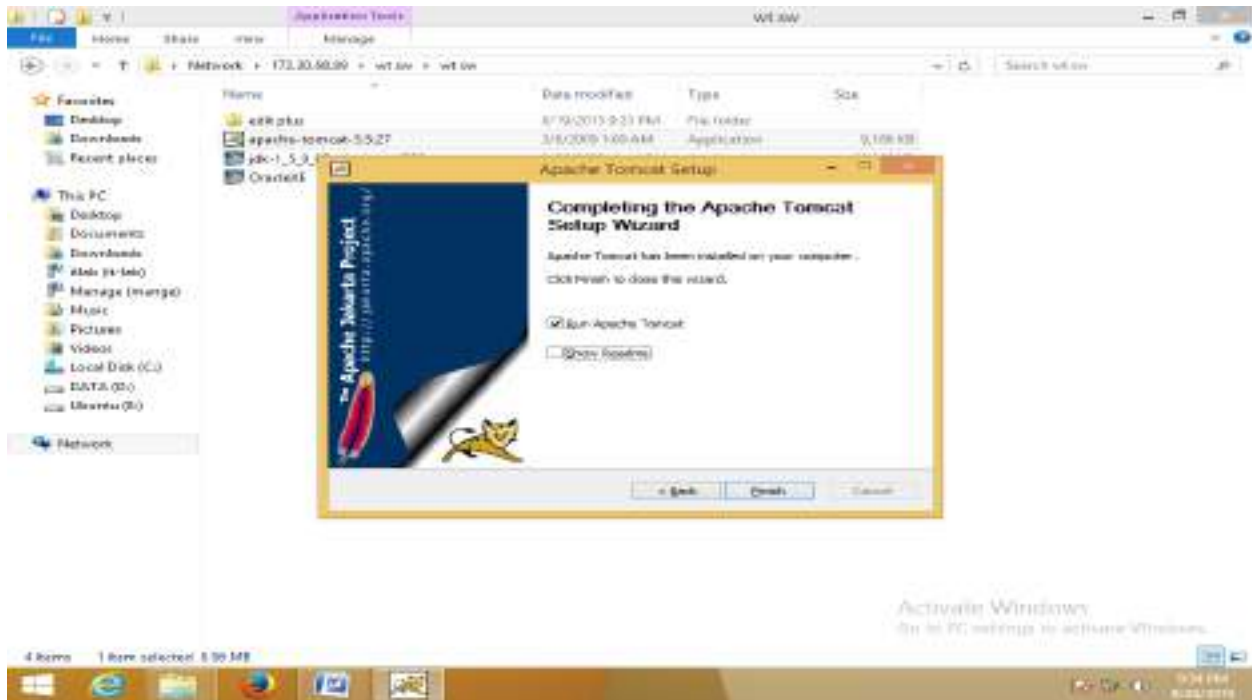


Select the path for the JRE version that is already installed on the system. Ensure that the provided JRE or JDK version is the compatible version with Tomcat version and click on Install

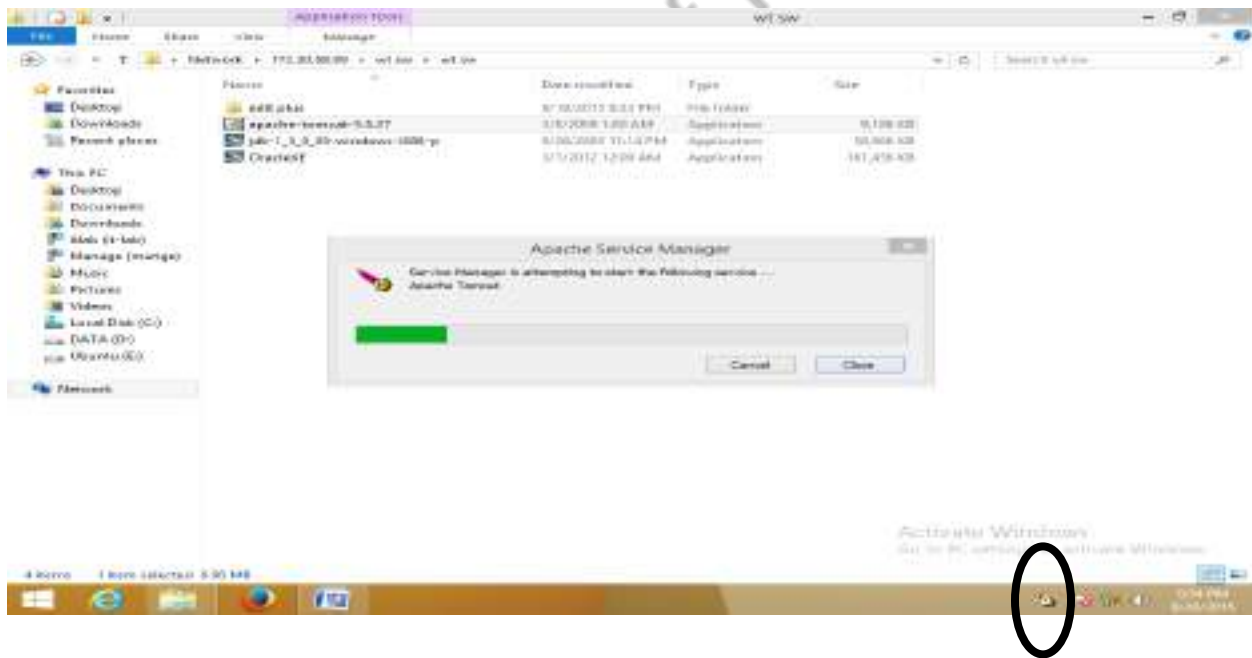
It will set JAVA_HOME variable to C:\Program Files\Java\jre1.5.0_05\

Note: It can be Jdk1.5.0 also

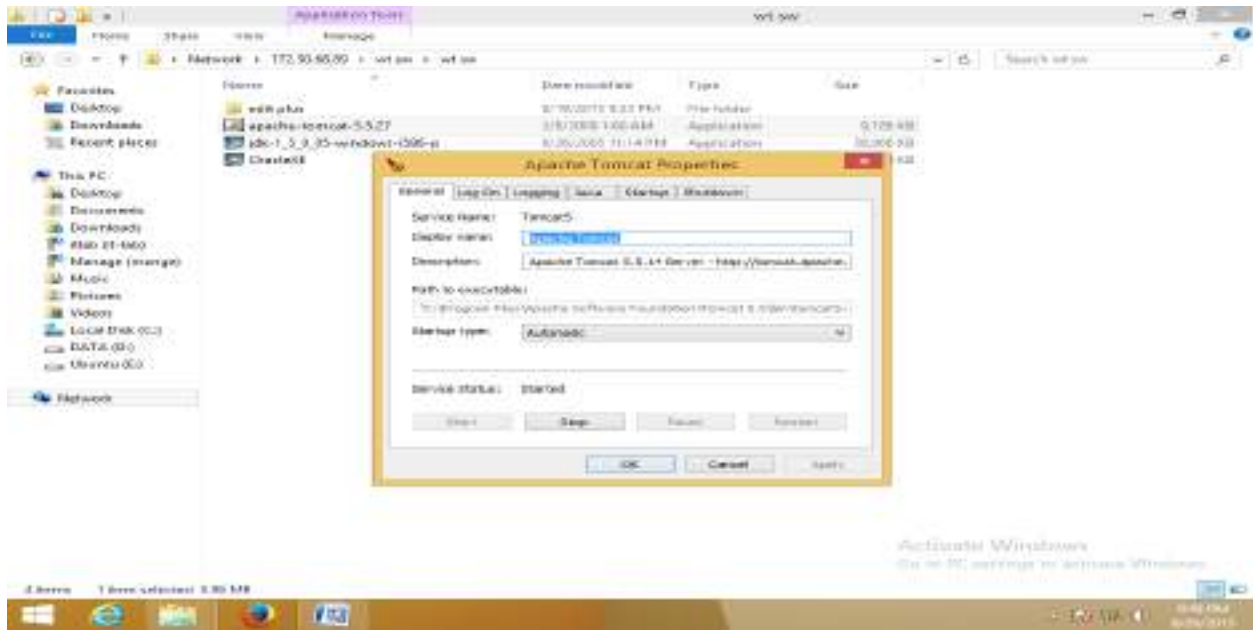




Click on Finish



Double click on the icon highlighted in the above screenshot

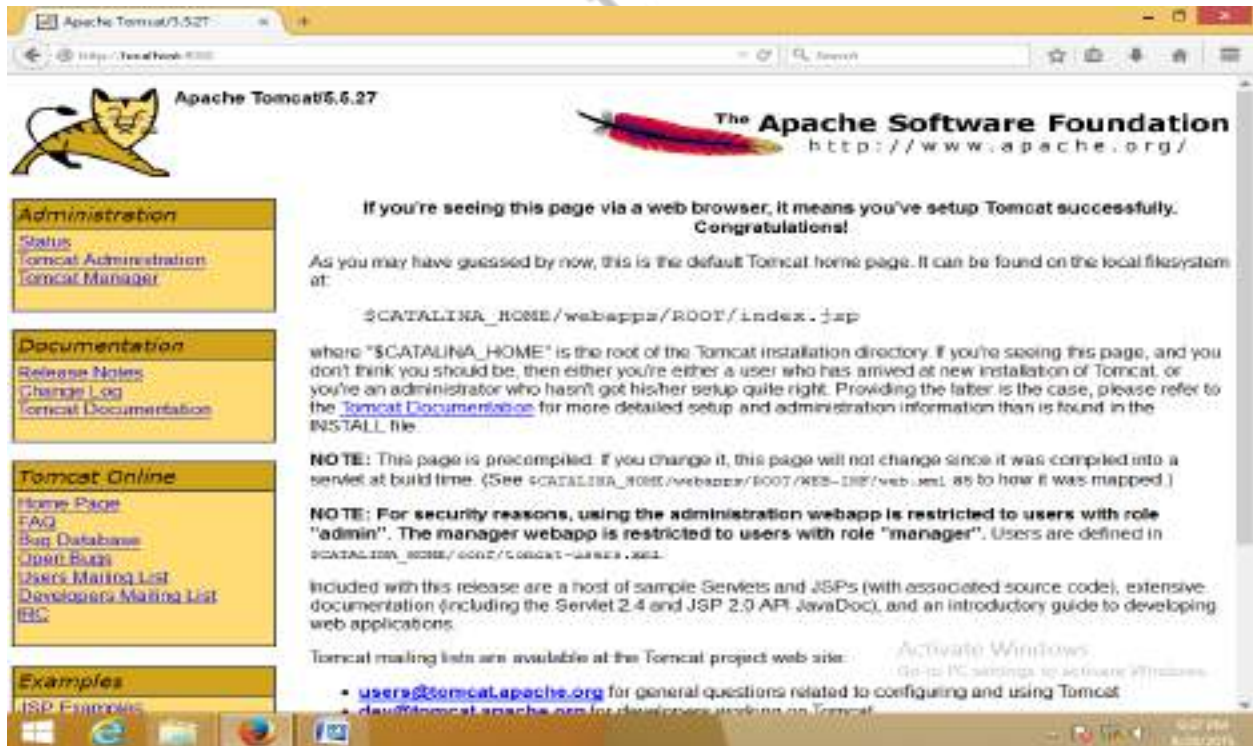


It indicates that the server is running. To stop the server, click on stop.

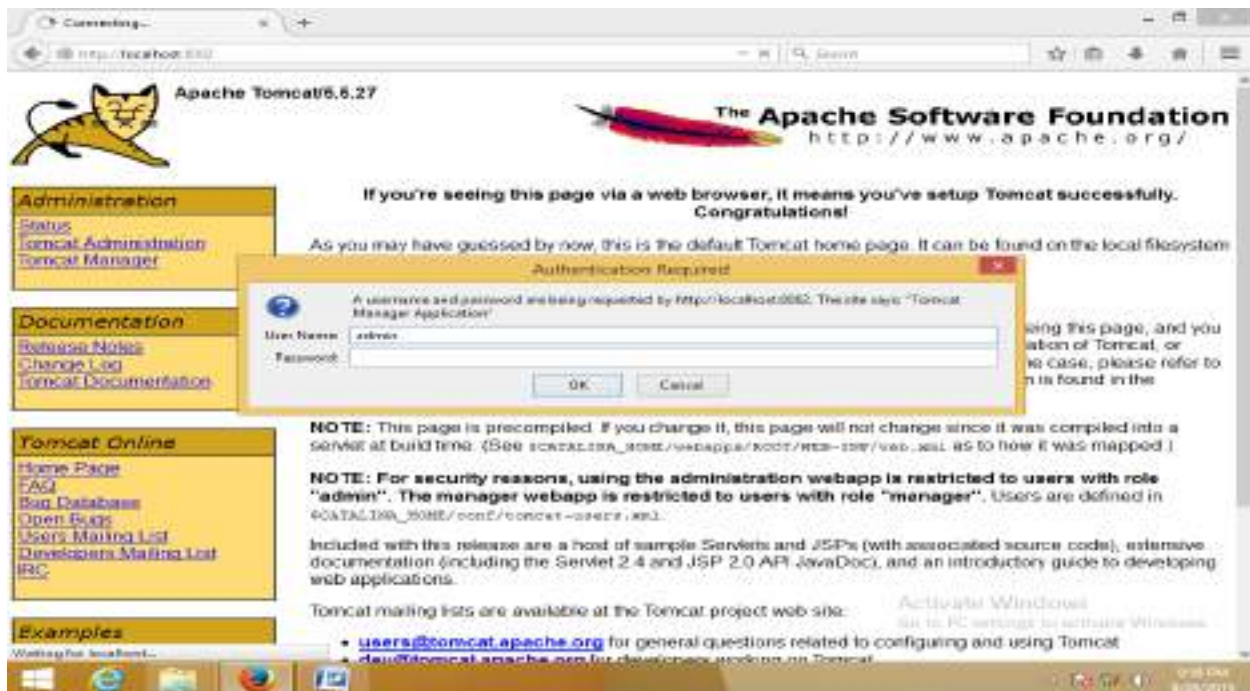
Testing

Open browser and type the url <http://localhost:8082>

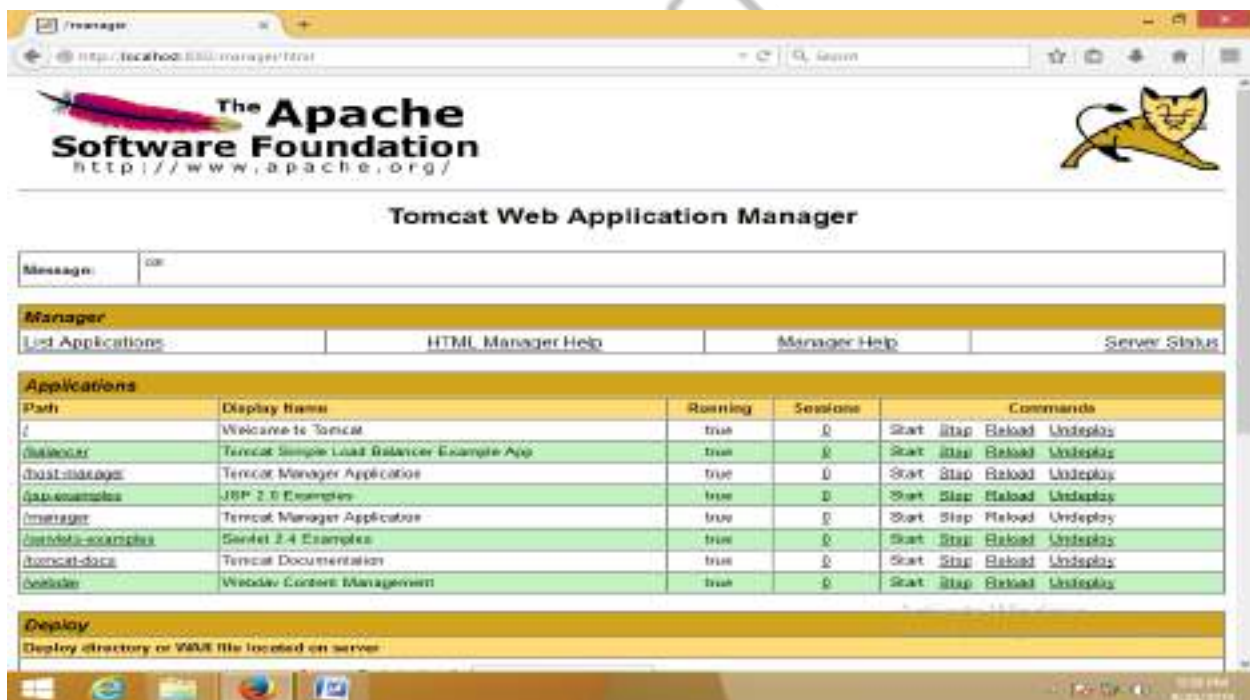
Opens a window as shown



Click on Tomcat Manager

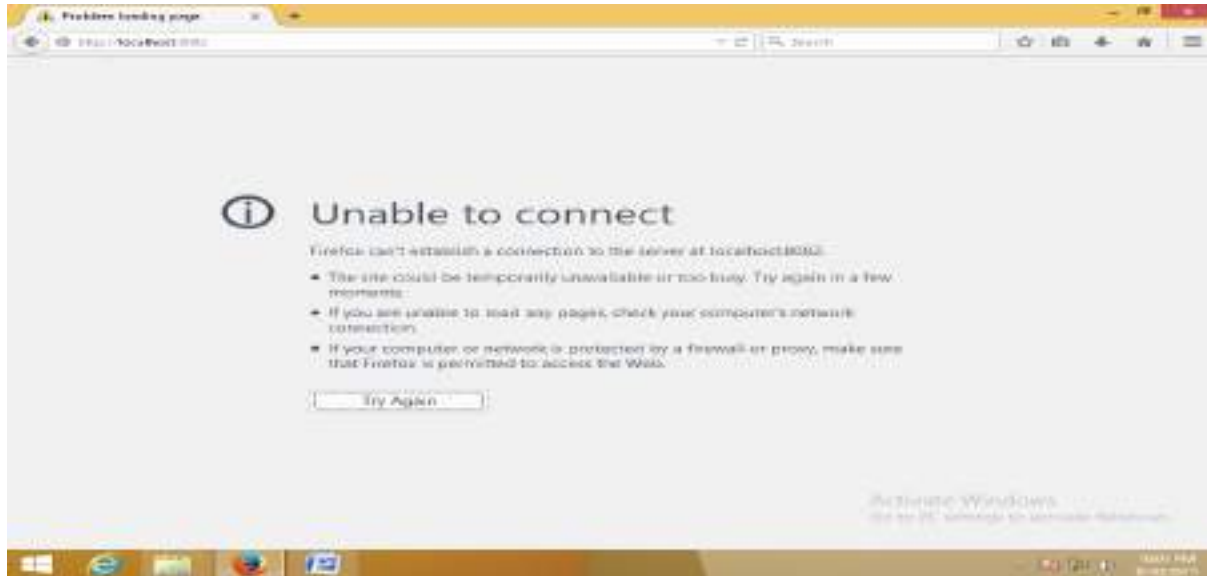


Provide username as admin and click ok



Opens a window which shows the list of applications deployed on to server correctly and running status as true.

When the server is stopped and trying to run the server, it shows the following msg



Ensure that the server is started before running the application.

If any changes to the application are made, stop/shutdown the server and start the server... and then run the modified application and test.

There are two types of tomcat available:

1. Apache tomcat that needs to extract only (no need to install)
2. Apache tomcat that needs to install ---- procedure is explained above

Apache tomcat that needs to extract only (no need to install) has the following steps:

1. Install the JDK. Make sure JDK 1.4 or 1.5 is installed and your PATH is set so that **both** "java -version" and "javac -help" give a result.
2. Download the software from <https://tomcat.apache.org/>
3. unpack the zip file for the current release build of Tomcat 5 or 6 or above
4. set the JAVA_HOME environment variable to tell Tomcat where to find Java

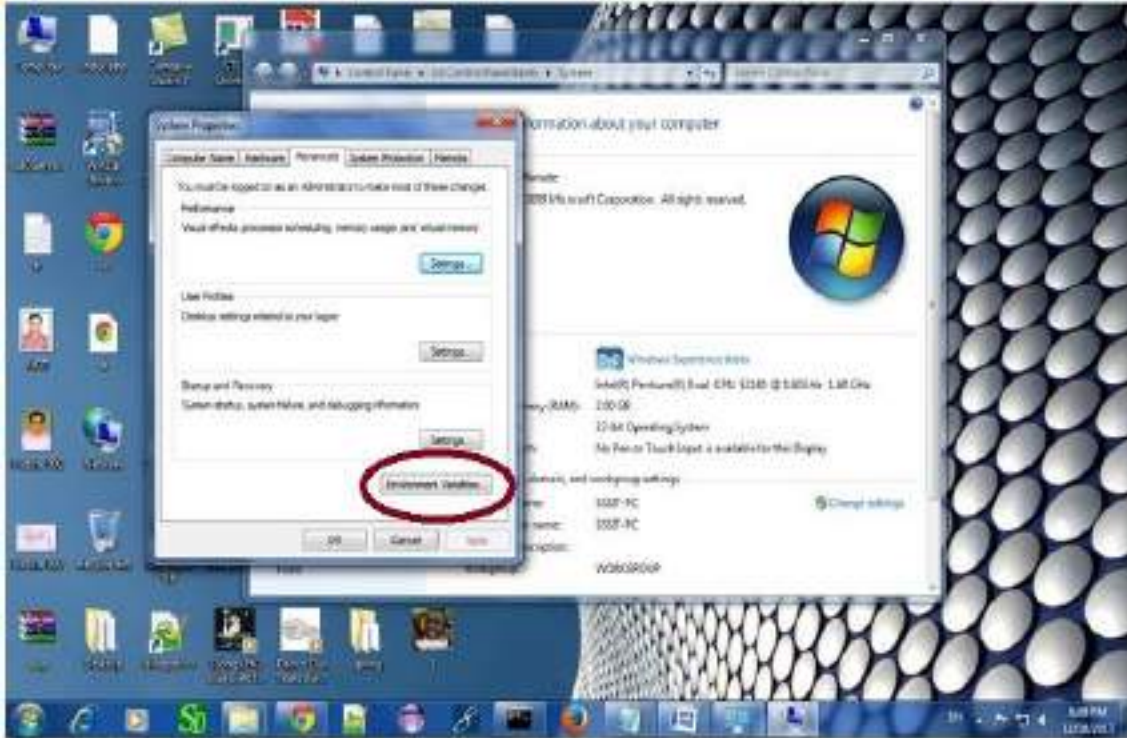
How to set JAVA_HOME in environment variable? Go to My Computer properties -> Click on advanced tab then environment variables -> Click on the new tab of user variable -> Write JAVA_HOME in variable name and paste the path of jdk folder in variable value -> ok -> ok -> ok.

Go to My Computer properties:



Click on advanced system settings tab then environment variables:

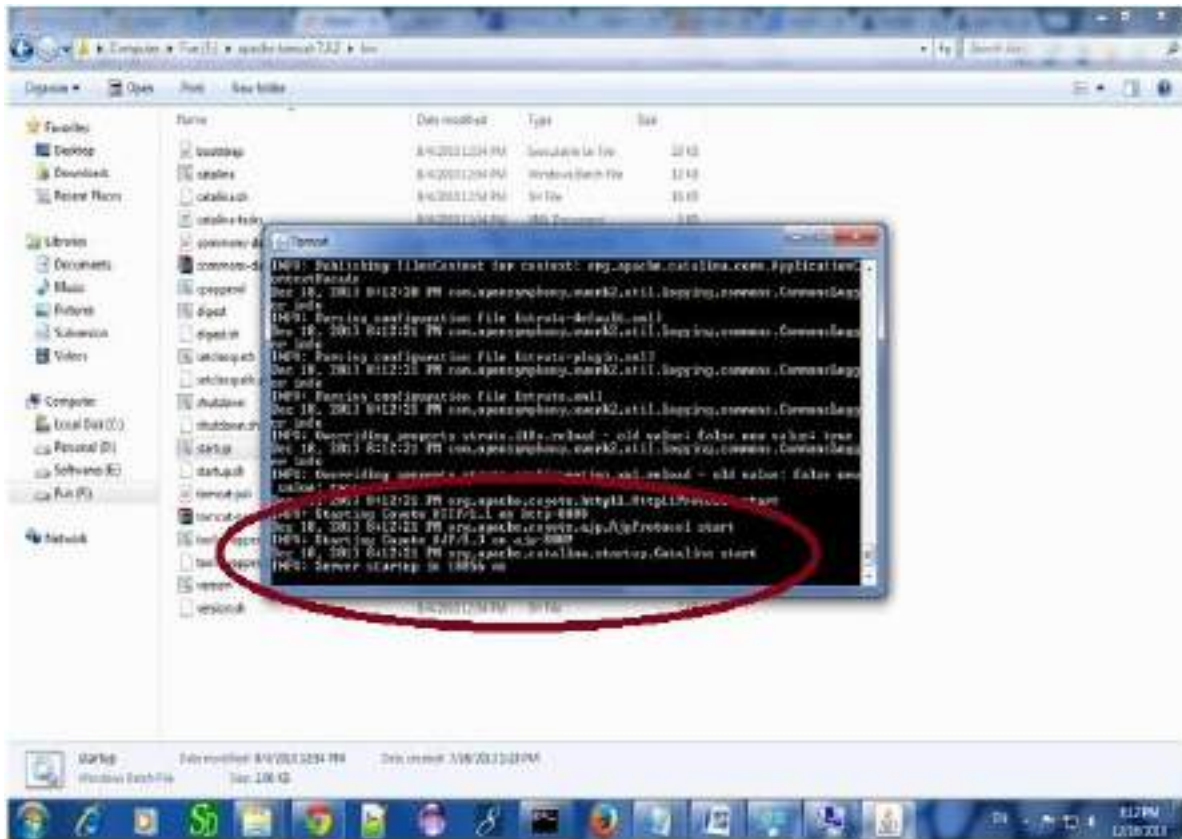




Click on the new tab of user variable or system variable:



Write JAVA_HOME in variable name and paste the path of jdk folder in variable value:



Now server is started successfully.

6. Changing the port number is required if there is another server running on the same system with same port number. Suppose you have installed oracle, you need to change the port number of apache tomcat because both have the default port number 8080.

Open **server.xml** file in notepad. It is located inside the **apache-tomcat/conf** directory . Change the Connector port = 8080 and replace 8080 by any four digit number instead of 8080. Let us replace it by 8082 and save this file.

AIM 2:

Write an HTML page including javascript that takes a given set of integer numbers and shows them after sorting in descending order.

PROGRAM

```
<html>
<title></title>
<head>
<script>
    var arr = [];
    function readValues() {

        arr[0]=parseInt(document.f1.n1.value);
        arr[1]=parseInt(document.f1.n2.value);
        arr[2]=parseInt(document.f1.n3.value);
        arr[3]=parseInt(document.f1.n4.value);
        arr[4]=parseInt(document.f1.n5.value);
        arr[5]=parseInt(document.f1.n6.value);
    }
    function bubbleSort()
    {
        readValues();
        document.getElementById("demo1").innerHTML = "Given Set of Integers : " +arr;
        var len = arr.length, i, j;

        for (i=0; i < len; i++)
        {
            for (j=0; j < len-i; j++)
            {
```

```

        if (arr[j] < arr[j+1])
            {
                var temp = arr[j];
                arr[j] = arr[j+1];
                arr[j+1] = temp;
            }
        }
    }

    //return arr;

    document.getElementById("demo2").innerHTML = "After Numeric sort, Set of Integers : "
+arr;

}
</script>
</head>
<body>
    <h2>JavaScript Array Sort</h2>
    <p>Enter the numbers and click on sort</p>
    <form name="f1">
        <input type="text" name="n1" value=""/>
        <br><br>
        <input type="text" name="n2" value=""/>
        <br><br>
        <input type="text" name="n3" value=""/>
        <br><br>
        <input type="text" name="n4" value=""/>
        <br><br>
        <input type="text" name="n5" value=""/>
        <br><br>

```

```
<input type="text" name="n6" value=""/>
```

```
<br><br>
```

```
<input type="button" name="b1" value="Sort" onclick="bubbleSort()>
```

```
<br><br>
```

```
<p id="demo1"></p>
```

```
<p id="demo2"></p>
```

```
</form>
```

```
</body>
```

```
</html>
```

OUTPUT





AIM 3:

Write an HTML page including any required Javascript that takes a number from one text field in the range of 0 to 999 and shows it in another text field in words. If the number is out of range, it should show “out of range” and if it is not a number, it should show “not a number” message in the result box.

PROGRAM

```
<html>
<head>
<title>Example1</title>
<script>
function checkfun()
{
var num = document.f1.num1.value;
var a= new RegExp("[0-9]");
if(!a.test(num))
alert("enter numbers only");
if(num.length>3)
alert("out of range");
var SingleDigits = new Array("Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight",
"Nine", "Ten", "Eleven", "Twelve", "Thirteen", "Fourteen", "Fifteen", "Sixteen", "Seventeen", "Eighteen",
"Nineteen");
var DoubleDigits = new Array("Twenty", "Thirty", "Forty", "Fifty", "Sixty", "Seventy", "Eighty",
"Ninety");
var Words = "";
var St;

for (var i = 9; i >= 1; i--)
{
if (num >= i * 100)
{
Words += SingleDigits[i];
St = 1;

```

```

        Words += " hundred";
    if (num != i * 100) Words += " and ";
    {
        num -= i*100;
    }
    i=0;
}
}
//alert(Words);

for (var i = 9; i >= 2; i--)
{
    if (num >= i * 10)
    {
        Words += (St?DoubleDigits[i-2].toLowerCase():DoubleDigits[i-2]);
        St = 1;
        if (num != i * 10) Words += "-";
        {
            num -= i*10;
        }
        i=0;
    }
}
//alert(Words);

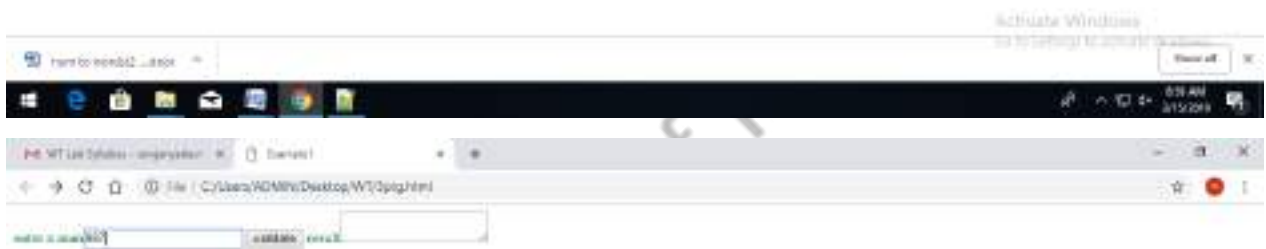
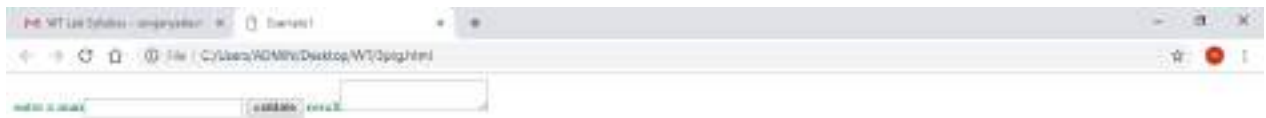
for (var i = 1; i < 20; i++)
{
    if (num == i)
    {
        Words += (St?SingleDigits[i].toLowerCase():SingleDigits[i]);
    }
}

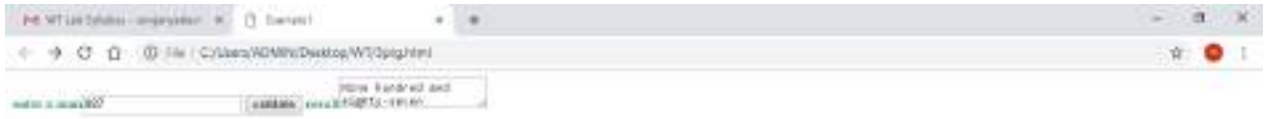
```

```
    }  
    //alert(Words);  
  
    f1.res.value = Words;  
    //document.f1.res.value = Words;  
    }  
  
</script>  
</head>  
<body>  
<form name="f1">  
<font background-color=pink color=green>  
enter a num<input type=text name=num1>  
<input type="button" value=validate onclick="checkfun()">  
result<textarea name=res></textarea>  
</font>  
</form>  
</body>  
</html>
```

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OUTPUT





AIM 4:

Write an HTML page that has one input , which can take multi-line text and a submit button. Once the user clicks the submit button, it should show the number of characters, words and lines in the text entered using an alert message. Words are separated with white space and lines are separated with new line character.

HTML FILE

```
<html>
<body>
<center>
<form>
ENTER THE DATA:
<textarea id="ta" height="40" width="50" style="resize:none">
</textarea><br /><br/>
<input type="submit" id="b1" value="submit" onclick="disp()">
<script>
function disp()
{
    var x=document.getElementById('ta').value;
    var c=document.getElementById('ta').value.split("\n");
    var cl=c.length;
    var cc=document.getElementById('ta').value.length;
    var sp=x.split(" ");
    var cw=sp.length+cl-1;
    var cc=x.length;
    window.alert("no. of lines"+cl+"no. of words"+cw+"no. of characters"+cc);
}

```

```
</script>  
</form>  
</center>  
</body></html>
```

OUTPUT





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AIM 5:

Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).

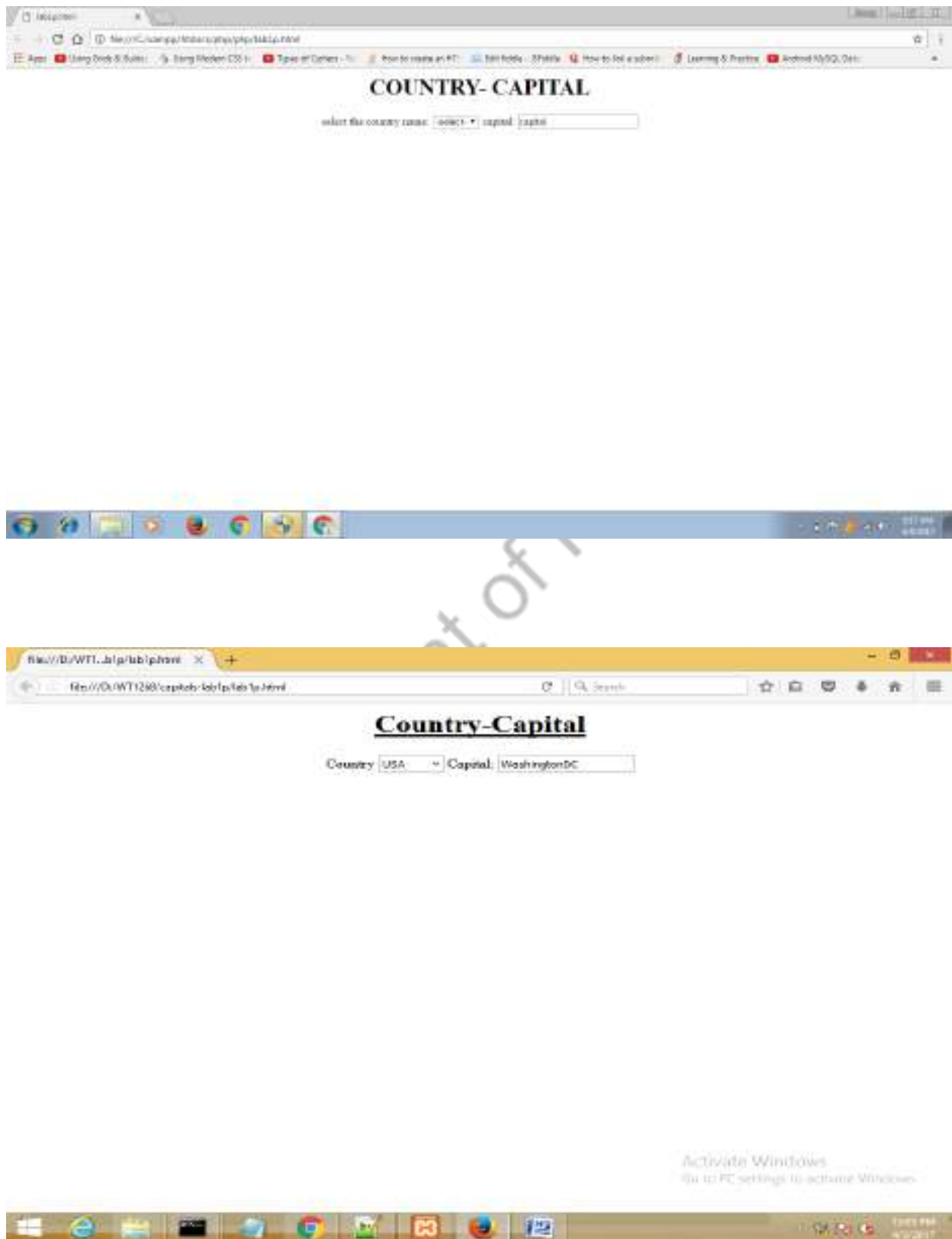
HTML FILE

```
<html>
<body>
<center><h1> COUNTRY- CAPITAL</h1></center>
<center>
<form>
select the country name:
<select id="list" onchange="disp()">
<option>-select-</option>
<option>INDIA</option>
<option>CHINA</option>
<option>JAPAN</option>
<option>USA</option>
</select>
capital:
<input type="text" id="cap" value="capital">
<script>
function disp()
{
    var x=document.getElementById('list').value;
    if(x=='-select-')
    {
```

```
        alert("select any country");
    }
    if(x=='INDIA')
    {
        document.getElementById('cap').value="DELHI";
    }
    else if(x=='CHINA')
    {
        document.getElementById('cap').value="BEIJING";
    }
    else if(x=='JAPAN')
    {
        document.getElementById('cap').value="TOKYO";
    }

    else if(x=='USA')
    {
        document.getElementById('cap').value="WASHINGTON";
    }
}
</script>
</form>
</center>
</body>
</html>
```

OUTPUT



AIM 6:

Create an XML document that contains 10 users information. Write a Java program, which takes User Id as input and returns the user details by taking the user information from the XML document using (a) DOM Parser and (b) SAX parser

PROGRAM

(a) DOM Parser

```
import org.w3c.dom.*;
import javax.xml.parsers.*;
import java.io.*;

public class domparsing
{
public static void main(String args[])
{
try {
    int found=0;

    InputStreamReader r=new InputStreamReader(System.in);
    BufferedReader br=new BufferedReader(r);

    DocumentBuilderFactory Factory = DocumentBuilderFactory.newInstance();
    DocumentBuilder parser = Factory.newDocumentBuilder();
    Document doc = parser.parse("D:\\itb1272\\dom\\samplexml.xml");
    Element root=doc.getDocumentElement();

    System.out.println("enter rollno");

        String rnumber=br.readLine();

    NodeList children = doc.getElementsByTagName("student");

    for (int temp = 0; temp < children.getLength(); temp++)
    {
```



```

        Node nNode = children.item(temp);

            Element eElement = (Element) nNode;

            if(rnumber.equals(
Element.getElementsByTagName("rollno").item(0).getTextContent()))
            {

                System.out.println("roll
number:"+eElement.getElementsByTagName("rollno").item(0).getTextContent());

                System.out.println("name:"+eElement.getElementsByTagName("name").item(0).getTex
Content());

                System.out.println("marks:"+eElement.getElementsByTagName("marks").item(0).getTex
tContent());

                    found=1;

            }

                }

                    if(found==0)

                        System.out.println("element not found");

                }

            catch (Exception e) {

                e.printStackTrace();

            }

        }
}

```

Samplexml.xml

```
<?xml version="1.0"?>  
<class>  
  <student>  
    <rollno>1</rollno>  
    <name>seetha</name>  
    <marks>85</marks>  
  </student>  
  <student>  
    <rollno>2</rollno>  
    <name>geetha</name>  
    <marks>95</marks>  
  </student>  
  <student>  
    <rollno>3</rollno>  
    <name>rama</name>  
    <marks>90</marks>  
  </student>  
</class>
```

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OUTPUT:

```
D:\itb1272\dom>java domparsing
enter rollno
1
roll number:1
name:seetha
marks:85

D:\itb1272\dom>java domparsing
enter rollno
2
roll number:2
name:geetha
marks:95

D:\itb1272\dom>java domparsing
enter rollno
3
roll number:3
name:rama
marks:90
```

Department

(b) SAX parser

PROGRAM

```
import java.io.*;
import java.lang.*;
import javax.xml.parsers.SAXParser;
import javax.xml.parsers.SAXParserFactory;
import org.xml.sax.Attributes;
import org.xml.sax.SAXException;
import org.xml.sax.helpers.DefaultHandler;

public class ReadXMLFile{
    ReadXMLFile handler = null;
    public static void main(String argv[] ) {

    try {

        SAXParserFactory factory = SAXParserFactory.newInstance();
        SAXParser saxParser = factory.newSAXParser();
        System.out.println("Start Element :" );
        //handler = new ReadXMLFile();

        DefaultHandler handler = new DefaultHandler() {
            BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
            String name= br.readLine();

            boolean bfname = false;
            boolean blname = false;
            boolean bname = false;
            boolean bsalary = false;

            boolean ok=false;
```

```
public void startElement(String uri, String localName,String qName,  
    Attributes attributes) throws SAXException {  
  
    //System.out.println("Start Element :" + qName);  
  
    if (qName.equalsIgnoreCase("FIRSTNAME")) {  
        bfname = true;  
    }  
if(ok)  
    {  
        if (qName.equalsIgnoreCase("LASTNAME")) {  
            blname = true;  
  
        }  
  
        if (qName.equalsIgnoreCase("NICKNAME")) {  
            bnname = true;  
        }  
  
        if (qName.equalsIgnoreCase("SALARY")) {  
            bsalary = true;  
        }  
    }  
}
```

```
public void endElement(String uri, String localName,
```

```
String qName) throws SAXException {

    //System.out.println("End Element : " + qName);

}

public void characters(char ch[], int start, int length) throws SAXException {

    if (bfname) {
        if(name.equals(new String(ch, start, length)))
        {
            System.out.println("First Name : " + new String(ch, start, length));
            ok=true;
        }
        bfname = false;
    }

    if (blname) {
        System.out.println("Last Name : " + new String(ch, start, length));
        blname = false;
    }

    if (bnname) {
        System.out.println("Nick Name : " + new String(ch, start, length));
        bnname = false;
    }

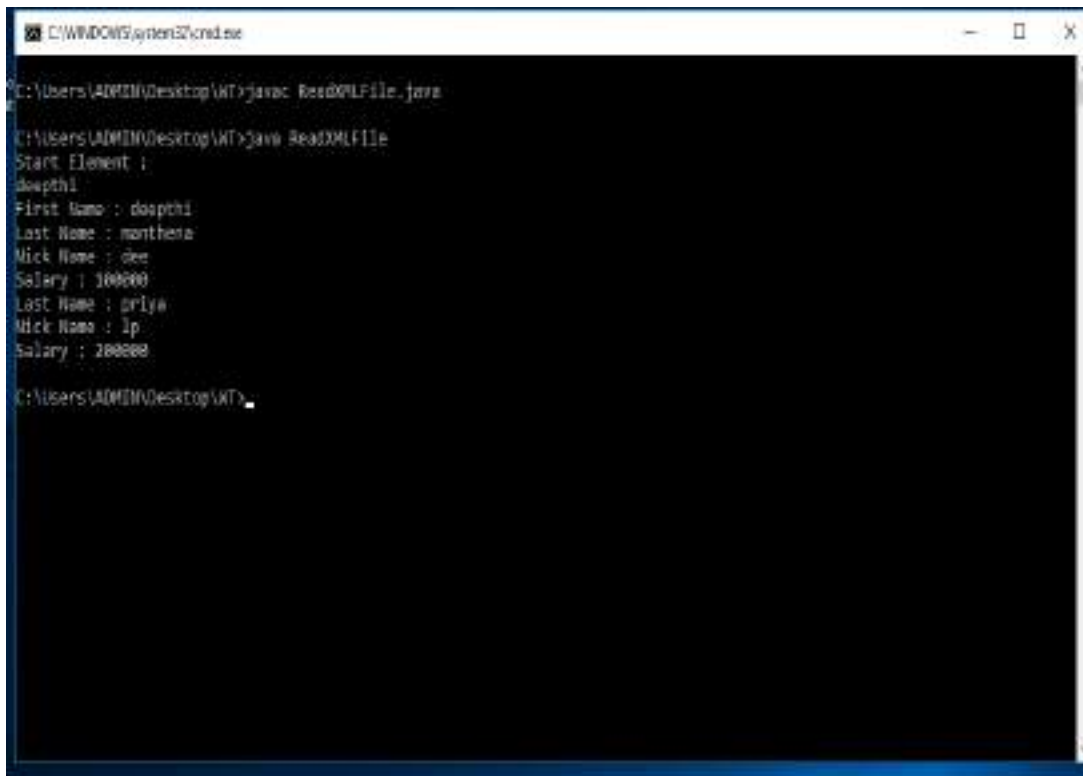
    if (bsalary) {
        System.out.println("Salary : " + new String(ch, start, length));
        bsalary = false;
    }
}
```

```
        }  
  
    }  
};  
saxParser.parse("D:\\Deepthi\\samplexml.xml", handler);  
  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
  
}  
  
}
```

Samplexml.xml

```
<?xml version="1.0"?>  
<company>  
    <staff>  
        <firstname>deepthi</firstname>  
        <lastname>manthana</lastname>  
        <nickname>dee</nickname>  
        <salary>100000</salary>  
    </staff>  
    <staff>  
        <firstname>lakshmi</firstname>  
        <lastname>priya</lastname>  
        <nickname>lp</nickname>  
        <salary>200000</salary>  
    </staff>  
</company>
```

OUTPUT:



```
C:\WINDOWS\system32\cmd.exe
C:\Users\ADMIN\Desktop\WT>javac ReadXMLFile.java
C:\Users\ADMIN\Desktop\WT>java ReadXMLFile
Start Element :
doepth1
First Name : doepth1
Last Name : monthera
Nick Name : dee
Salary : 100000
Last Name : priya
Nick Name : lp
Salary : 200000
C:\Users\ADMIN\Desktop\WT>
```

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AIM 7(i) Using PHP:

A user validation web application , where the user submits the login name and password to the server. The name and password are checked against the data already available in Database and if the data matches , a successful login page is returned. Otherwise a failure message is shown to the user.

HOME PAGE

```
<html>
<body>
<center>
<form name="f1" action="lab3valid2.php" method="get">
<h1>LOGIN PAGE</h1>
LOGIN ID:<input type="text" name="l1">
<br>
<br>
PASSWORD:<input type="password" name="l2"><br><br>
<input type="submit" value="Login" >
</form>
</center>
</body>
</html>
```

LOGIN VALIDATION

```
<html>
<body><center>
<?php
$connect=mysql_connect('localhost','root',"true);
$connection=mysql_select_db("itb",$connect);
$v1=$_REQUEST["I1"];
$v2=$_REQUEST["I2"];
$query="select lid from student where lid='".$v1.'"and pwd='".$v2.'";";
$res=mysql_query($query);
$res1=mysql_num_rows($res);
if($res1==0)
{
    $q2="select lid from student where lid='".$v1.'";";
    $r2=mysql_query($q2);
    $rs1=mysql_num_rows($r2);
    if($rs1==0)
    {
        echo "Invalid LoginId";
    }
    else
    {
        echo "invalid pwd";
    }
}
else
{
    echo "<h1>succesfully logged in</h1>";
}
```

```
    echo "<h1>welcome </h1>". "$v1." </h1>";  
}  
?></center>  
</body>  
</html>
```

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OUTPUT



AIM 7(ii) Using PHP:

Modify the above program to use an xml file instead of database.

Program

```
<html>
<head>
<title>HOME</title>
</head>
<body>
<form method="get" action="xmlphp_26feb.php">
<input type="text" name="user" placeholder="enter name"/><br>
<input type="password" name="password" placeholder="enter password"/><br>
<input type="submit" name="login" value="login">
</form>
</body>
</html>
```

```
<?php
$xml=simplexml_load_file("phpxmldata_26feb.xml");
    $candidate=$xml->people;

    foreach($candidate as $i)
    {

        if(isset($_REQUEST["login"]))
        {
            if($_REQUEST["user"]==($i->username))
```

```

        {
            if($_REQUEST["password"]==($i->psw))
            {
                echo "welcome";
            }
            else
            {
                echo "incorrect password";
                break;
            }
        }
    }
}
?>

```

```
<?xml version="1.0"?>
```

```
<person>
```

```
<people>
```

```
<username>one</username>
```

```
<psw>one</psw>
```

```
</people>
```

```
<people>
```

```
<username>two</username>
```

```
<psw>two</psw>
```

```
</people>
```

```
<people>
```

```
<username>three</username>
```

```
<psw>three</psw>
```

```
</people>
  <people>
    <username>four</username>
      <psw>four</psw>
    </people>
  </person>
```

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AIM 7(iv) Using PHP:

A simple calculator web application that takes two numbers and an operator(+,-,/,* and %) from an HTML page & returns the result page with the operation performed on the operands.

```
<html>
<body><center><h1><u>CALCULATOR</u></h1>
<form name="f1"><h1>
value1:<input type="text" name="v1"><br /><br />
value2:<input type="text" name="v2"><br /><br />
choose an operator:</h1>
<select name="ops">
    <option >operators</option>
    <option >*</option>
    <option >/</option>
    <option >+</option>
    <option >-</option>
    <option >%</option>
</select><br /><br />
<input type="submit" value="calculate">
<br /><br /></form></body>
<body>
<?php
    if((isset($_REQUEST["v1"]))&&(isset($_REQUEST["v2"])) &&$_REQUEST["v1"]!=""
&&$_REQUEST["v2"]!="")
    {
        if(is_numeric($_REQUEST["v1"])&&is_numeric($_REQUEST["v2"]))
        {
            $op1=$_REQUEST["v1"];
            $op2=$_REQUEST["v2"];

```

```
$op3=$_REQUEST["ops"];
switch($op3)
{
    case "+":$res=$op1+$op2;break;
    case "/":$res=$op1/$op2;break;
    case "-":$res=$op1-$op2;break;
    case "%":$res=$op1%$op2;break;
    case "*":$res=$op1*$op2;break;
    case "operators":echo"select any operator";break;
}
echo "result is";
echo $res;
}
else
{
    echo "enter numeric values";
}
}
else
    echo "enter some values";
?>
</body></html>
```

OUTPUT



AIM 7(v) Using PHP:

Modify the above program such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB, it returns the value that was previously computed or it computes the result and returns it after storing the new query and result in DB

```
<html>
<body>
<form name="f1">
<center>
<h1>Calculator</h1>
value1:<input type="text" name="v1"><br /><br />
value2:
<input type="text" name="v2"><br /><br />
choose an operator:
<select name="ops">
    <option >operators</option>
    <option >*</option>
    <option >/</option>
    <option >+</option>
    <option >-</option>
    <option >%</option>
</select>
<br />
<br />
<input type="submit" value="calculate">
<br />
<br />
</center>
```

```

</form>
</body>
<body>
<?php
    if((isset($_REQUEST["v1"]))&&(isset($_REQUEST["v2"])) &&$_REQUEST["v1"]!=""
&&$_REQUEST["v2"]!="")
    {

        if(is_numeric($_REQUEST["v1"])&&is_numeric($_REQUEST["v2"]))
        {
            $connect=mysql_connect('localhost','root','');
            $connection=mysql_select_db("itb",$connect);
            $op1=$_REQUEST["v1"];
            $op2=$_REQUEST["v2"];
            $op3=$_REQUEST["ops"];
            switch($op3)
            {
                case "+":$res=$op1+$op2;break;
                case "/":$res=$op1/$op2;break;
                case "-":$res=$op1-$op2;break;
                case "%":$res=$op1%$op2;break;
                case "*":$res=$op1*$op2;break;
                case "operators":echo"select any operator";break;
            }
            $q2="select * from calci where v1=".$op1." and v2=".$op2." and op=".$op3."";
            $r2=mysql_query($q2);
            $rs1=mysql_num_rows($r2);
            if($rs1==0)
            {

```

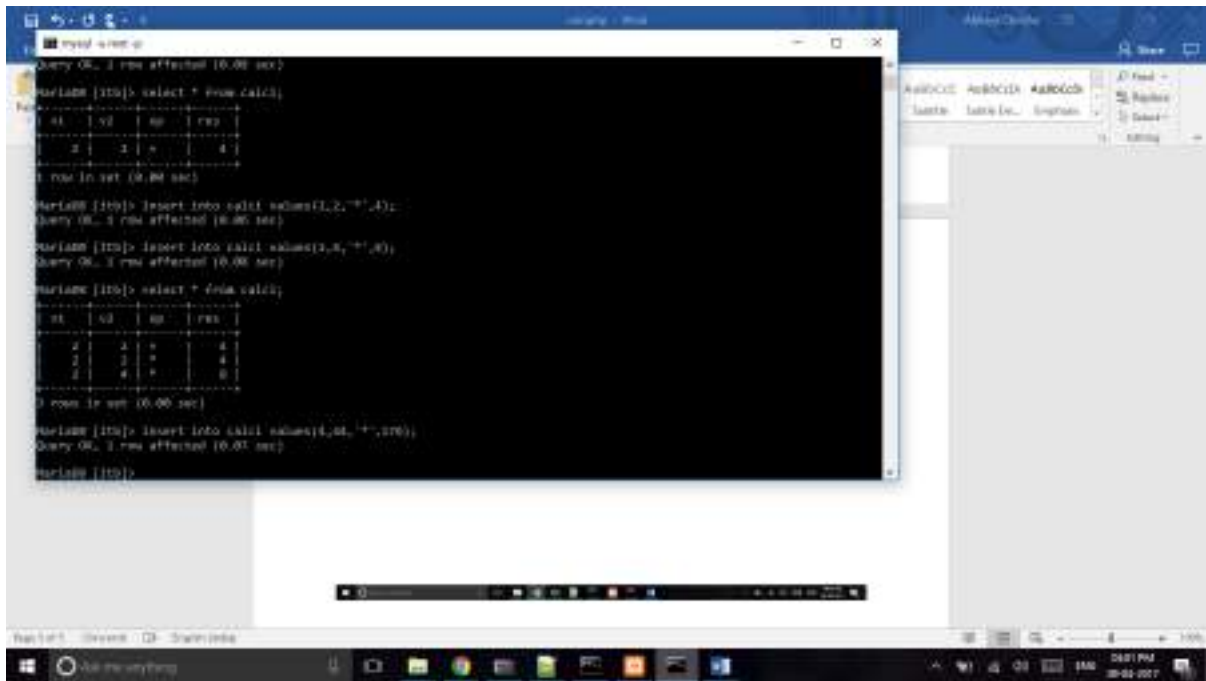
```

        $q3="insert into calci values(".$op1.", ".$op2.", ".$op3.", ".$res.");";
        $rs5=mysql_query($q3);
        echo "Row Successfully Inserted";
    }
else
{
    $rows=mysql_fetch_row($r2);
    $res= $rows[3];
}
echo "<center>Result is ";
echo $res."</center>";
}
else
{
    echo "Enter numeric values";
}
}
else
{
    echo "Enter some values";
}
?>
</body>
</html>

```

OUTPUT





Calculator

value1

value2

choose an operator

Row Successfully Inserted

Result is 16




```
mysql> insert into salu values(4,'',0);
Query OK, 1 row affected (0.00 sec)

mysql> select * from calci;
+----+----+----+----+
| s1 | s2 | s3 | res |
+----+----+----+----+
| 2  | 2  | *  | 4   |
| 2  | 1  | *  | 2   |
| 2  | 4  | *  | 8   |
+----+----+----+----+
3 rows in set (0.00 sec)

mysql> insert into calci values(4,4,'',10);
Query OK, 1 row affected (0.01 sec)

mysql> select * from calci;
+----+----+----+----+
| s1 | s2 | s3 | res |
+----+----+----+----+
| 2  | 2  | *  | 4   |
| 2  | 1  | *  | 2   |
| 2  | 4  | *  | 8   |
| 4  | 4  | *  | 16  |
| 4  | 4  | *  | 16  |
+----+----+----+----+
5 rows in set (0.00 sec)

mysql>
```

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AIM 7(vi) Using PHP:

A web application takes a name as input and on submit it shows a hello<name>page where <name> is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank You <name> message with the duration of usage(hint;use session to store name and time).

HOME PAGE

```
<html>
<body><center>
<h1>LOGIN PAGE</h1><br />
<h2> Please enter your name:</h2><br/>
<form action="lab4cookies2.php" method="post">
<input type="text" name="uname"><br /><br />
<input type="submit" name="s1" value="submit">
</form>
</center>
</body>
</html>
```

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LOGIN PAGE

```
<html>
<body>
<form action="lab4cookies3.php" method="post">
<p align="right">
<input type="submit" name="s2" value="LOGOUT"></p>
<center>
<?php
    $name=$_REQUEST["uname"];
    echo "<h1>Hello!!!...<h1>".$name;
    date_default_timezone_set("Asia/kolkata");
    $d1=date('m/d/y h:i:s a',time());
    echo "<br />your login time is :<br />".$d1;
    setcookie("u1",$name);
    setcookie("d1",$d1);
?></center>
</body>
</html>
```

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LOGOUT PAGE

```
<html>
<body>
<form >
<center>
<h1>THANK YOU</h1>
<?php
    date_default_timezone_set("Asia/kolkata");
    $d2=date('m/d/y h:i:s a',time());
    echo "<br />".$_COOKIE['u1']."<br />";
    echo "your login time is ";
    $dt=$_COOKIE['d1'];
    echo $_COOKIE['d1'];
    echo "<br />your logout time is ".$d2;
    $dt1=date_create($dt);
    $dt2=date_create($d2);
    $dd=date_diff($dt1,$dt2);
    echo "<br />your login session is :";
    echo $dd->format('%h hours, %i mins ,%s seconds');
?>
</center>
</form>
</body>
</html>
```

OUTPUTS



LOGIN PAGE

Please enter your name:



Hello!!
vija
your login time is :
14/08/17 10:36:05 am

THANK YOU
vija
your login time is : 14/08/17 10:36:05 am
your password is : 123456789



AIM 7(vii) Using PHP:

A web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with “Hello <name>,you are not authorized to visit this site” message, where <name> should be replaced with the entered name. Otherwise it should send “Welcome <name> to this site” message.

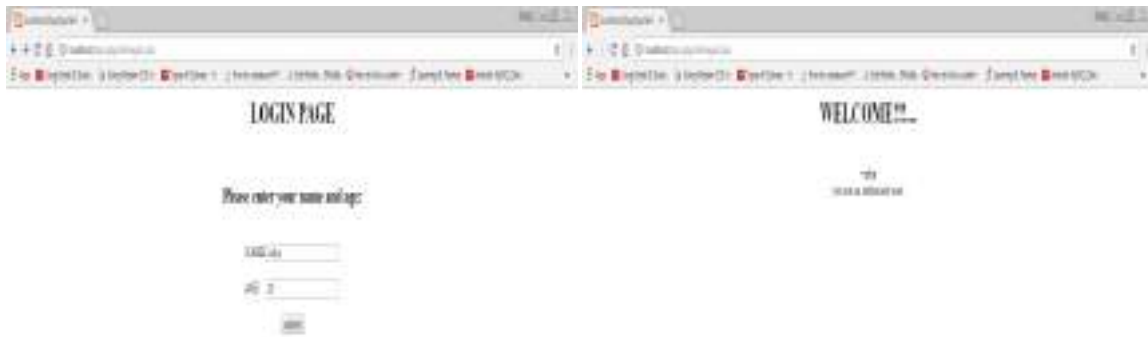
LOGIN PAGE

```
<html>
<body><center>
<h1>LOGIN PAGE</h1><br />
<h2> Please enter your name and age:</h2><br/>
<form action="lab4age2.php" method="post">
NAME:<input type="text" name="unam"><br /><br />
AGE:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="a1"><br /></br />
<input type="submit" name="s1" value="submit">
</form>
</center>
</body>
</html>
```

VALIDATION

```
<html>
<body><center>
<?php
if( (strcmp($_REQUEST['unam'],'')==0)|| (strcmp($_REQUEST['a1'],'')==0))
{
    echo "Please Enter all values!!...";
}
else
{
    if($_REQUEST['a1']>18)
    {
        echo "<h1>WELCOME!!!...</h1><br />";
        echo $_REQUEST['unam']."<br />you are an authorised user:" ;
    }
    else
    {
        echo "you are an unauthorised user";
    }
}
?></center>
</body>
</html>
```

OUTPUT



AIM 7(viii) Using PHP:

A web application for implementation:

The user is first served a login page which takes user's name and password. After submitting the details the server checks these values against the data from a database and takes the following decisions.

If the name and password matches, serves a welcome page with user's full name.

If name is not found in database, serves a registration page, where user's full name is asked and on submitting the full name, it stores, the login name, password and full name in the database (use sessions for storing the submitted login name and password).

HOME PAGE

```
<html>
<body>
<center>
<form name="f1" action="lab3valid2.php" method="get">
<h1>LOGIN PAGE</h1>
LOGIN ID:<input type="text" name="l1">
<br>
<br>
PASSWORD:<input type="password" name="l2"><br><br>
<input type="submit" value="Login" >
</form>
</center>
</body>
</html>
```

LOGIN VALIDATION

```
<html>
<body><center>
<?php
$connect=mysql_connect('localhost','root','',true);
$connection=mysql_select_db("itb",$connect);
$v1=$_REQUEST["l1"];
$v2=$_REQUEST["l2"];
$query="select lid from student where lid='".$v1.'"and pwd='".$v2.'"";
$res=mysql_query($query);
$res1=mysql_num_rows($res);
if($res1==0)
{
    $q2="select lid from student where lid='".$v1.'"";
    $r2=mysql_query($q2);
    $rs1=mysql_num_rows($r2);
    if($rs1==0)
    {
        echo "<html><body>Please register...<form action='lab3valid3.php'
method='post'><input type='submit' value='submit'>";
    }
    else
    {
        echo "invalid pwd";
    }
}
else
{
```

```
    echo "<h1>succesfully logged in</h1>";  
    echo "<h1>welcome </h1>". "$v1."</h1>";  
}  
?>  
</center>  
</body>  
</html>
```

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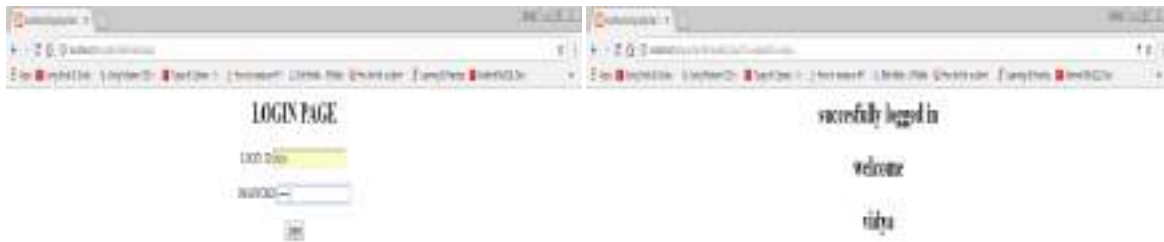
REGISTRATION PAGE

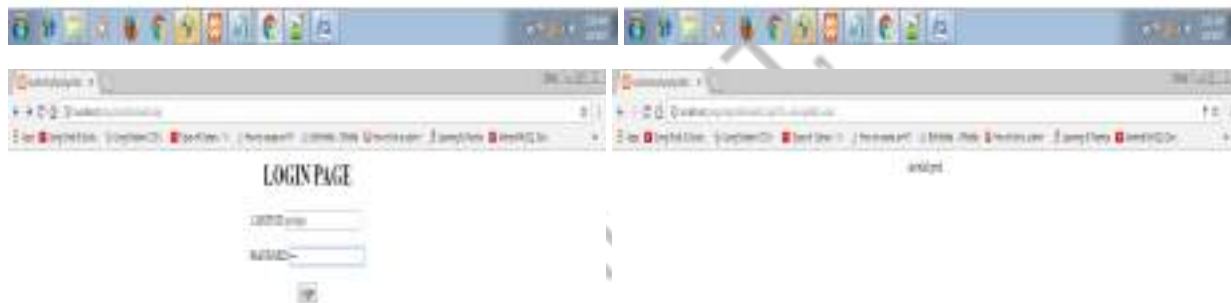
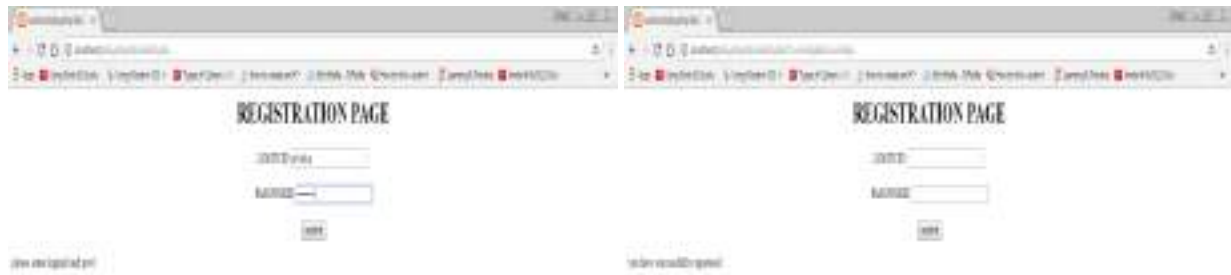
```
<html>
<body>
<center>
<form name="f1" method="get">
<h1>REGISTRATION PAGE</h1>
LOGIN ID:<input type="text" name="r1">
<br>
<br>
PASSWORD:<input type="password" name="r2"><br><br>
<input type="submit" value="submit" >
</form>
</center>
</body>
<body>
<?php
if(isset($_REQUEST['r1']) && isset($_REQUEST['r2']))
{
    $connect=mysql_connect('localhost','root',"true);
    $connection=mysql_select_db("itb",$connect);
    $v1=$_REQUEST['r1'];
    $v2=$_REQUEST['r2'];
    $query="insert into student values('".$v1."','".$v2."');";
    $res=mysql_query($query);
    if($res<0)
    {
        echo "unsuccessful";
    }
}
```

```
    else
    {
        echo "you have successfully registered";
    }
}
else
{
    echo "please enter loginid and pwd";
}
?>
</body>
</html>
```

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OUTPUT





AIM 7(ix) Using PHP:

A web application that lists all cookies stored in the browser on clicking“ list cookies” button. Add cookies if necessary.

SETTING COOKIES

```
<html>
<body><center>
<form action="cookie.php" method="get">
<h1>Cookie</h1>
<input type="submit" value="List Cookies" name="btn">
</center>
</body>
</html>
<?php
    setcookie("c1","IT");
    setcookie("c2","CSE");
    setcookie("c3","EEE");
    setcookie("c4","ECE");
    setcookie("c5","ETM");
?>
```


RETRIEVING COOKIES

```
<html>
<body><center><h1><u>List of cookies are:</u></br>
<?php
$c1=$_COOKIE['c1'];
$c2=$_COOKIE['c2'];
$c3=$_COOKIE['c3'];
$c4=$_COOKIE['c4'];
$c5=$_COOKIE['c5'];
echo $c1."<br>";
echo $c2."<br>";
echo $c3."</br>";
echo $c4."</br>";
echo $c5."</br>";
$counter = 0;
foreach($_COOKIE as $value)
{
    if($value)
    {
        ++$counter;
    }
}
echo "cookie count is".$counter;
?></h1></center>
</body></html>
```

OUTPUT



List of cookies are:

**IT
CSE
EEE
ECE
ETM
cookie count is5**



AIM 7(i) Using Servlets:

A user validation web application , where the user submits the login name and password to the server. The name and password are checked against the data already available in Database and if the data matches , a successful login page is returned. Otherwise a failure message is shown to the user.

HTML FILE

```
<html>
<body>
<center>
<form name="f1" action="/wtlab/abc2" method="get">
<h1>Login Page</h1>
Login ID<input type="text" name="l1">
<span name="s1">
<br>
<br>
Password<input type="password" name="l2">
<br>
<br>
<input type="submit" value="Login">
</form>
</center>
</body>
</html>
```

JAVA FILE

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class slab1jvalid extends HttpServlet
{
    Connection c;
    public void init()
    {
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
    public void doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException,ServletException
    {
        try{
            PrintWriter out=res.getWriter();
            Statement s = c.createStatement();
            res.setContentType("text/html");
            String n1=req.getParameter("I1");
            String n2=req.getParameter("I2");
```

```
String q="select lid from student where lid="+n1+" and pwd="+n2+"";
ResultSet r=s.executeQuery(q);
if(r.next())
{
    out.println("<html><body bgcolor='pink'><center><h1>welcome
"+n1+"</h1></center></boby></html>");
}
}
else
{
    out.println("Dear "+n1+"you are not a validated user");
catch(Exception e)
{
    System.out.println(e);
}
}
}
```

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XML FILE

```
<servlet>  
    <servlet-name>abcd</servlet-name>  
    <servlet-class>slab1jvalid</servlet-class>  
</servlet>  
<servlet-mapping>  
    <servlet-name>abcd</servlet-name>  
    <url-pattern>/abc2</url-pattern>  
</servlet-mapping>
```

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OUTPUT





AIM 7(ii) Using Servlets:

Modify the user validation web application to use an XML file instead of Database.

HTML FILE

```
<html>
<body>
<center>
<form action="/wtlab/xmlaccess" name="f1">
<h1>LOGIN PAGE</h1>
LOGIN ID:<input type="text" name="t1">
<br>
<br>
PASSWORD:<input type="password" name="t2"><br><br>
<input type="submit" value="Login" name="b1">
</form>
</center>
</body>
</html>
```

JAVA FILE

```
import org.w3c.dom.*;
import javax.xml.parsers.*;
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class xmlAccess extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        try {
            int found=0;
            PrintWriter out = response.getWriter();
            DocumentBuilderFactory Factory =
DocumentBuilderFactory.newInstance();

            DocumentBuilder parser = Factory.newDocumentBuilder();
            Document doc = parser.parse("C:\\xampp\\tomcat\\webapps\\wtlab\\domxml.xml");
            Element root=doc.getDocumentElement();

            String uname=request.getParameter("t1");
            String pwd=request.getParameter("t2");

            NodeList children = doc.getElementsByTagName("student");

            out.println("<html><body>");

            for (int temp = 0; temp < children.getLength(); temp++)
            {
                Node nNode = children.item(temp);

                Element eElement = (Element) nNode;
```

```

        if(uname.equals( eElement.getElementsByTagName("name").item(0).getTextContent()))
    {
    if(pwd.equals( eElement.getElementsByTagName("pwd").item(0).getTextContent()))
    {
    //out.println("roll
    number:"+eElement.getElementsByTagName("rollno").item(0).getTextContent());

        //out.println("name:"+eElement.getElementsByTagName("name").item(0).getTextContent
    ());

        //out.println("marks:"+eElement.getElementsByTagName("marks").item(0).getTextConte
    nt());

                                out.println("welcome"+uname);
                                found=1;
    }
    }
    }
    if(found==0)
        out.println("Invalid user");
        out.println("</body></html>");
    }
    catch (Exception e) {
        e.printStackTrace();
    }
    }
    }

```

XML FILE

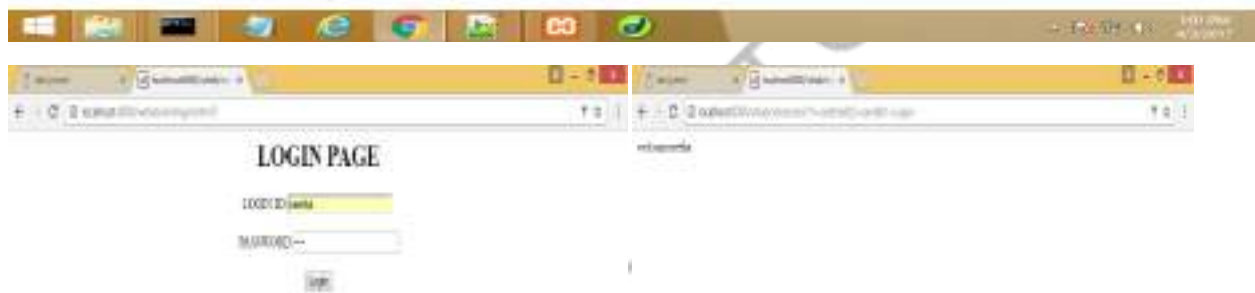
```
<?xml version="1.0"?>
<class>
<student>
<rollno>1</rollno>
<name>seetha</name>
    <pwd>ram</pwd>
<marks>85</marks>
</student>
<student>
<rollno>2</rollno>
<name>geetha</name>
    <pwd>ram</pwd>
<marks>95</marks>
</student>
<student>
<rollno>3</rollno>
<name>rama</name>
    <pwd>ram</pwd>
<marks>90</marks>
</student>
</class>

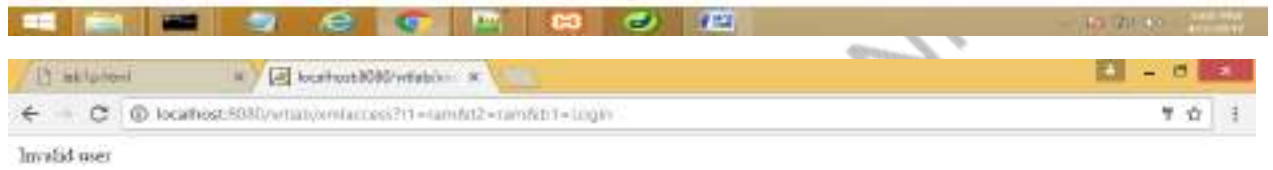
<servlet>
<servlet-name>HelloServlet3</servlet-name>
<servlet-class>xmlAccess</servlet-class>
</servlet>
```

```
<servlet-mapping>  
<servlet-name>HelloServlet3</servlet-name>  
<url-pattern>/xmlaccess</url-pattern>  
</servlet-mapping>
```

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OUTPUT





AIM 7(iv) Using Servlets:

A simple calculator web application that takes two numbers and an operator(+,-,/,* and %) from an HTML page & returns the result page with the operation performed on the operands.

HTML FILE

```
<html>
<body><center><h1><u>CALCULATOR</u><br>
<form name="f1" action="/wtlab/abc6" method="get">
value1:<input type="text" name="v1"><br /><br />
value2:
<input type="text" name="v2"><br /><br />
choose an operator:
<select name="ops">
    <option >operators</option>
    <option >*</option>
    <option >/</option>
    <option >+</option>
    <option >-</option>
    <option >%</option>
</select>
<br />
<br />
<input type="submit" value="calculate">
<br />
<br />
</form></h1></center>
</body>
</html>
```


JAVA FILE

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.text.*;

public class slab2jcalci extends HttpServlet{

    public void doGet(HttpServletRequest req,HttpServletResponse res) throws
ServletException,IOException    {

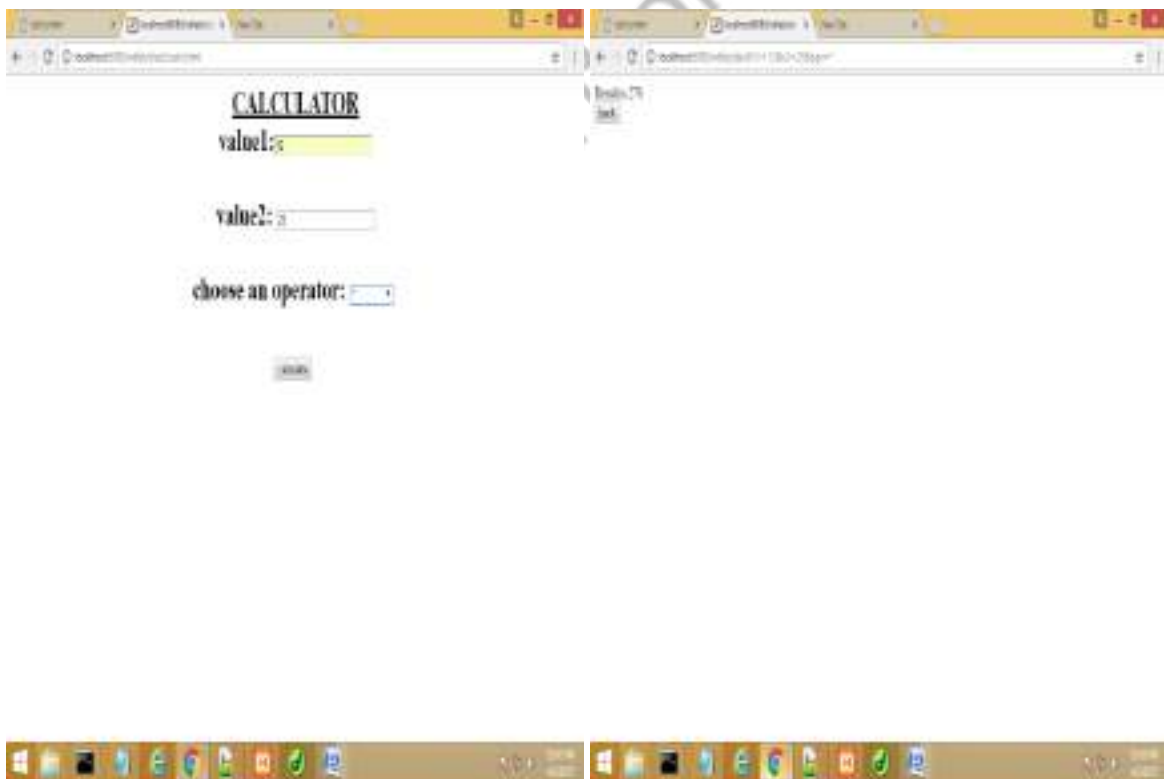
        String o1=req.getParameter("v1");
        String o2=req.getParameter("v2");
        String o3=req.getParameter("ops");
        char o4=o3.charAt(0);
        int n1=Integer.parseInt(o1);
        int n2=Integer.parseInt(o2);
        PrintWriter out=res.getWriter();
        int r=0;
        switch(o4){
            case '+':r=n1+n2;break;
            case '%':r=n1%n2;break;
            case '-':r=n1-n2;break;
            case '*':r=n1*n2;break;
            case '/':r=n1/n2;break;
        }
        out.println("<html><body>Result is "+r);
        out.println("<form action='/wtlab/slab2calci.html' method='get' ><input
type='submit' value='back'>");
    }
}
```

XML FILE

```
<servlet>  
    <servlet-name>sl4</servlet-name>  
    <servlet-class>slab2jcalci</servlet-class>  
</servlet>  
<servlet-mapping>  
    <servlet-name>sl4</servlet-name>  
    <url-pattern>/abc6</url-pattern>  
</servlet-mapping>
```

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OUTPUT



AIM 7(v) Using Servlets:

Modify the above program such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB ,it returns the value that was previously computed or it computes the result and returns it after storing the new query and result in DB

HTML FILE

```
<html>
<body>
<form name="f1" action="/wtlab/abc6" method="get">
<center>
<h1>Calculator</h1>
value1:<input type="text" name="val1"><br /><br />
value2:
<input type="text" name="val2"><br /><br />
choose an operator:
<select name="op">
    <option >operators</option>
    <option >*</option>
    <option >/</option>
    <option >+</option>
    <option >-</option>
    <option >%</option>
</select>
<br />
<br />
<input type="submit" value="calculate">
<br />
```


</center>

</form>

</body>

<html>

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JAVAFILE

```
import java.io.*;
import java.sql.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class slab2jcalci extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse res) throws
ServletException, IOException{
        Connection c;
        try{
            Class.forName("com.mysql.jdbc.Driver");
            c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
            PrintWriter out=res.getWriter();
            Statement s = c.createStatement();
            res.setContentType("text/html");
            String v1= request.getParameter("val1");
            String v2= request.getParameter("val2");
            String o= request.getParameter("op");
            char op= o.charAt(0);
            int n1= Integer.parseInt(v1);
            int n2= Integer.parseInt(v2);
            int r=0;
            switch(op){
                case '+':      r = n1 + n2 ; break;
                case '-':      r = n1 - n2 ; break;
                case '%':      r = n1 % n2 ; break;
```

```

        case '/':      r = n1 / n2 ; break;
        case '*':     r = n1 * n2 ; break;
    }

    String q="select * from calci where v1="+n1+" and v2="+n2+" and op="+op+"";
    ResultSet rss=s.executeQuery(q);
    String resultt="";
    if(rss.next()) {
resultt = rss.getString(4);
    }
    else
    {

        String q2="insert into calci values("+n1+", "+n2+", "+op+", "+r+");";
        out.println(q2);
        ResultSet rs2=s.executeQuery(q2);
        resultt=Integer.toString(r);

    }
    out.println("<html><body><center>Result is : "+resultt+" </br>");
    out.println("<form action='/wtlab/slab2calci.html' method='get'><input
type='submit' value='Go Back' ></form></center></body></html>");
    }
    catch(Exception e)
    {

        System.out.println(e);
    }
}
}

```

XML FILE

```
<servlet>
    <servlet-name>sl2calci</servlet-name>
    <servlet-class>slab2jcalci</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>sl2calci</servlet-name>
    <url-pattern>/abc6</url-pattern>
</servlet-mapping>
```

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OUTPUT

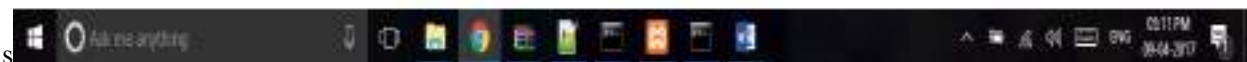


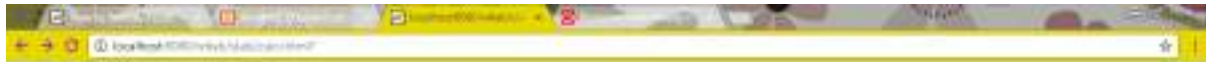
Calculator

value1:

value2:

choose an operator:





Calculator

nilai1: 2

nilai2: 2

choose an operator: +

Calculate



Result: 4

Go Back



```
mysql> use calc;
mysql> insert into calc1 values(4,4,'+',370);
Query OK, 1 row affected (0.01 sec)

mysql> select * from calc1;
+----+----+-----+-----+
| x1  | x2  | op    | res   |
+----+----+-----+-----+
| 2   | 2   | +     | 4     |
| 2   | 2   | +     | 4     |
| 2   | 4   | +     | 6     |
| 4   | 44  | +     | 370   |
| 4   | 4   | +     | 10    |
+----+----+-----+-----+

mysql> use calc2;
mysql> select * from calc2;
+----+----+-----+-----+
| x1  | x2  | op    | res   |
+----+----+-----+-----+
| 2   | 2   | +     | 4     |
| 2   | 2   | +     | 4     |
| 2   | 4   | +     | 6     |
| 4   | 44  | +     | 370   |
| 4   | 4   | +     | 10    |
+----+----+-----+-----+

mysql> use calc3;
```



Calculator

value1:

value2:

choose an operator:



AIM 7(vi) Using Servlets:

A web application takes a name as input and on submit it shows a hello<name>page where <name> is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank You <name> message with the duration of usage(hint;use session to store name and time).

HTML FILE

```
<html>
<body>
<center>
<form name="f1" action="/wtlab/abc3" method="get">
<h1>Login Page</h1>
Login ID<input type="text" name="l1">
<span name="s1">
<br>
<br>
Password<input type="password" name="l2">
<br>
<br>
<input type="submit" value="Login">
</form>
</center>
</body>
</html>
```

JAVA LOGIN FILE

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.text.*;

public class slab2jlogin extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse res) throws
ServletException, IOException
    {
        String uname = request.getParameter("l1");
        Date d1 = new Date();
        DateFormat df= new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
        String formatted= df.format(d1);
        Cookie c1 = new Cookie("name",uname);
        Cookie c2= new Cookie("logintime",formatted);
        PrintWriter out= res.getWriter();
        res.addCookie(c1);
        res.addCookie(c2);
        out.println("<html><body><form action='/wtlab/abc4' name='f2' method='get'>
Welcome " +uname);
        out.println("<br><br> You Logged in at : "+d1+" <br><input type='submit'
value='Logout'></form></body></html>");
    }
}
```

JAVA LOGOUT FILE

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.text.*;

public class slab2jlogout extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse res) throws
ServletException, IOException
    {
        Date loginTime= null;
        PrintWriter out = null;
        try
        {
            out= res.getWriter();
            Cookie ck[] = request.getCookies();
            String uname= ck[0].getValue();
            String dst= ck[1].getValue();
            Date logoutTime = new Date();
            System.out.println("Login time : "+dst);
            DateFormat df = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
            loginTime= df.parse(dst);
            System.out.println("Login Time : "+loginTime);
            long sessionTime= logoutTime.getTime()-loginTime.getTime();

            out.println("<html><body> Hello! You have Successfully Logged Out! \n Your Session
duration is : ");
```

```
out.println(sessionTime+" millisecs </body></html>");
    }
    catch(Exception e)
    {

    }
}
}
```

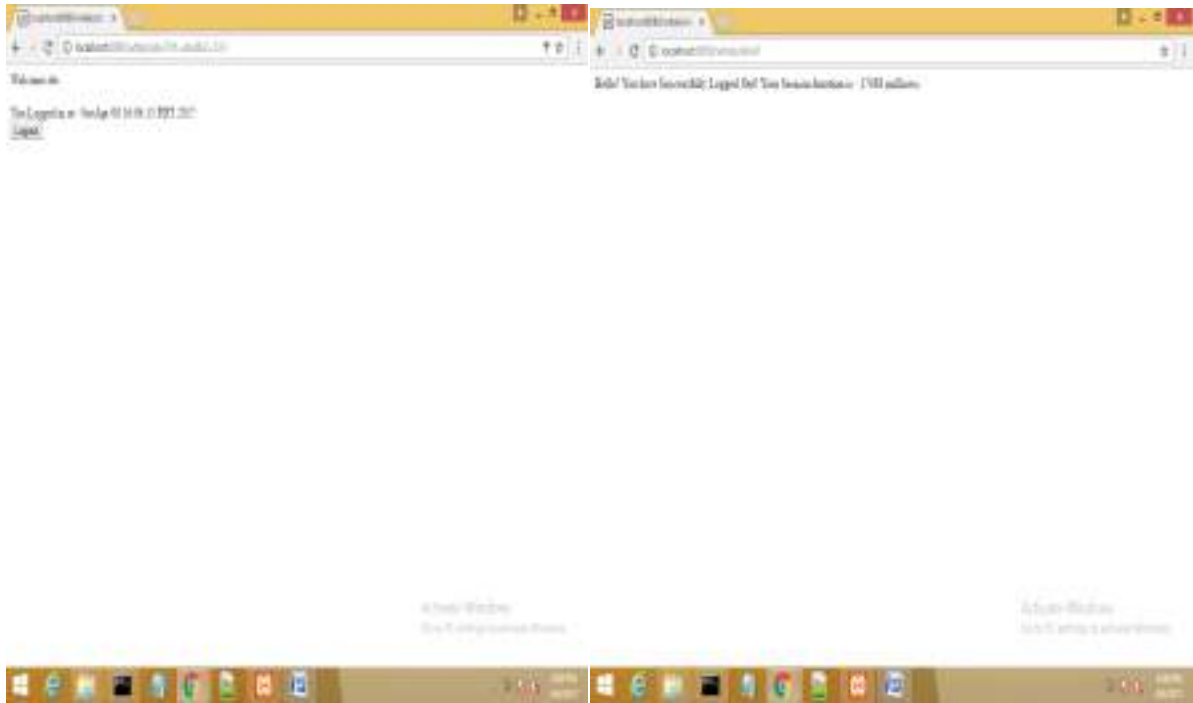
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XML FILE

```
<servlet>
    <servlet-name>sl1</servlet-name>
    <servlet-class>slab2jlogin</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>sl1</servlet-name>
    <url-pattern>/abc3</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>sl2</servlet-name>
    <servlet-class>slab2jlogout</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>sl2</servlet-name>
    <url-pattern>/abc4</url-pattern>
</servlet-mapping>
```

OUTPUT





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AIM 7(vii) Using Servlets:

A web application that takes name and age from an HTML page. If the age is less than 18, It should send a page with “Hello <name>,you are not authorized to visit this site” message, where <name> should be replaced with the entered name. Otherwise it should send “Welcome <name> to this site” message

HTML FILE

```
<html>
<body><center>
<h1>LOGIN PAGE</h1><br />
<h2> Please enter your name and age:</h2><br/>
<form action="/wtlab/abc5" method="get">
NAME:<input type="text" name="a1"><br /><br />
AGE:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="a2"><br /></br />
<input type="submit" name="s1" value="submit">
</form>
</center>
</body>
</html>
```

JAVA FILE

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.text.*;

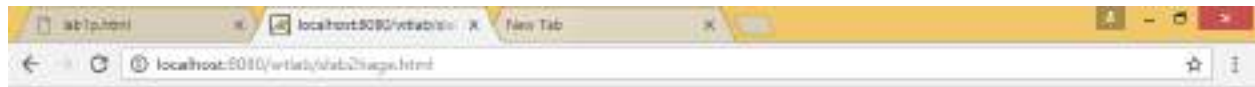
public class slab2age extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res) throws
ServletException,IOException
    {
        String u1=req.getParameter("a1");
        String age=req.getParameter("a2");
        int age1=Integer.parseInt(age);
        PrintWriter out=res.getWriter();
        if(age1<18)
        {
            out.println("<html><body> you are not authorised
user!!!!...</body></html>");
        }
        else
        {
            out.println("<html><body>welcome "+u1+" </body></html>");
        }
    }
}
```

XML FILE

```
<servlet>  
    <servlet-name>sl3</servlet-name>  
    <servlet-class>slab2age</servlet-class>  
</servlet>  
<servlet-mapping>  
    <servlet-name>sl3</servlet-name>  
    <url-pattern>/abc5</url-pattern>  
</servlet-mapping>
```

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OUTPUT



LOGIN PAGE

Please enter your name and age:

NAME:

AGE:



LOGIN PAGE

Please enter your name and age:

NAME:

AGE:





LOGIN PAGE

http://localhost:8080/

Please enter your name and age:

NAME

AGE



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AIM 7(viii) Using Servlets:

A web application for implementation:

The user is first served a login page which takes user's name and password. After submitting the details the server checks these values against the data from a database and takes the following decisions.

If the name and password matches, serves a welcome page with user's full name.

If name is not found in database, serves a registration page, where user's full name is asked and on submitting the full name, it stores, the login name, password and full name in the database (use sessions for storing the submitted login name and password).

HOME PAGE

```
<html>
<body>
<center>
<form name="f1" action="/wtlab/abc7" method="get">
<h1>LOGIN PAGE</h1>
LOGIN ID:<input type="text" name="l1">
<br>
<br>
PASSWORD:<input type="password" name="l2"><br><br>
<input type="submit" value="Login" >
</form>
</center>
</body>
</html>
```

REGISTRATION PAGE

```
<html>
<body>
<center>
<form name="f1" action="/wtlab/abc8" method="get">
<h1>REGISTRATION PAGE</h1>
LOGIN ID:<input type="text" name="r1">
<br>
<br>
PASSWORD:<input type="password" name="r2"><br><br>
<input type="submit" value="submit" >
</form>
</center>
</body>
</body>
```

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VALIDATION FILE

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class svalid1 extends HttpServlet
{
    Connection c;
    public void init()
    {
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }

    public void doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException,ServletException {
        try{
            PrintWriter out=res.getWriter();
            //out.println("hello2");
            Statement s = c.createStatement();
            //out.println("hello3");
            res.setContentType("text/html");
            String n1=req.getParameter("l1");
```

```

String n2=req.getParameter("l2");
//out.println("hello2");
String q="select lid from student where lid='"+n1+"' and pwd='"+n2+"'";
ResultSet r=s.executeQuery(q);
if(r.next())
{
    out.println("<html><body bgcolor='pink'><center><h1>welcome
"+n1+"</h1></center></boby></html>");
}
else
{
    out.println("<html><body>Please register...<form action='svalid2.html'
method='get'><input type='submit' value='submit'>");
}
}
catch(Exception e)
{
    System.out.println(e);
}
}
}

```

REGISTRATION

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

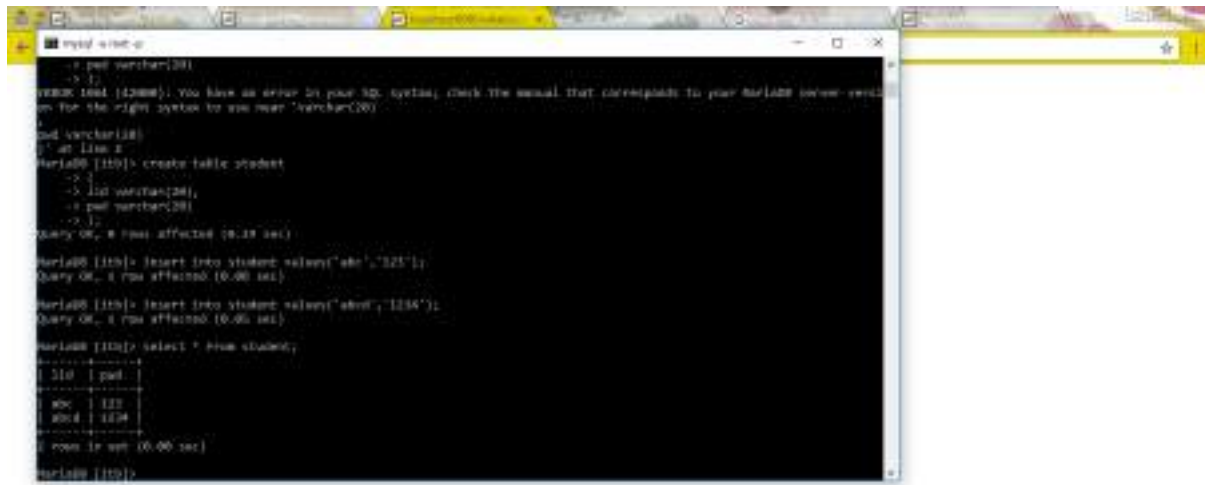
public class svalid2 extends HttpServlet
{
    Connection c;
    public void init()
    {
        try{
            Class.forName("com.mysql.jdbc.Driver");
            c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
    public void doGet(HttpServletRequest req,HttpServletResponse res) throws
    IOException,ServletException
    {
        try{
            PrintWriter out=res.getWriter();
            //out.println("hello2");
            Statement s = c.createStatement();
            //out.println("hello3");
            res.setContentType("text/html");
            String n1=req.getParameter("l1");
```

```

String n2=req.getParameter("l2");
//out.println("hello2");
String q="insert into student values('"+n1+"','"+n2+"')";
ResultSet r=s.executeQuery(q);
if(r.next())
{
    out.println("<html><body bgcolor='pink'><center><h1>Succesfully Registered
</br>welcome "+n1+"</h1></center></boby></html>");
}
else
{
    out.println("<html><body>Please register...<form action='svalid2.html'
method='get'><input type='submit' value='submit'>");
}
}
catch(Exception e)
{
    System.out.println(e);
}
}
}

```

OUTPUT



```
mysql> use school;
mysql> create table student (
  id int(11) primary key,
  name varchar(255),
  password varchar(255)
);
mysql> insert into student values (123, 'abc');
mysql> insert into student values (1234, '1234');
mysql> select * from student;
```

id	name	password
123	abc	
1234	1234	



LOGIN PAGE

LOGIN ID:

PASSWORD:





LOGIN PAGE

LOGIN ID:

PASSWORD:



welcome abc





LOGIN PAGE

LOGIN ID

PASSWORD



Please register...
[Logout](#)





REGISTRATION PAGE

LOGIN ID:

PASSWORD:



REGISTRATION PAGE

LOGIN ID: abcde

PASSWORD: 1234



```
mysql> select * from student;
+----+----+
| sid | pno |
+----+----+
| 100 | 211 |
| 200 | 221 |
| 300 | 231 |
| 400 | 241 |
+----+----+
3 rows in set (0.00 sec)

mysql>
```

```
ls=$(cat /dev/urandom | tr -dc 'a-z0-9' | fold -w 32 | head -n 1 | xargs echo)
echo "The entered value is: $s"
echo "Bye"
```

```
mysql> select * from student;
+----+----+
| sid | pno |
+----+----+
| 100 | 211 |
| 200 | 221 |
| 300 | 231 |
| 400 | 241 |
+----+----+
3 rows in set (0.00 sec)
```

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AIM 7(ix) Using Servlets:

A web application that lists all cookies stored in the browser on clicking“ List Cookies” button. Add cookies if necessary.

HTML FILE

```
<html>
<body><center>
<form action="/wtlab/abc1" method="get">
<h1>Cookie</h1>
<input type="submit" value="Set Cookies" name="btn">
</center>
</body>
</html>
```

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JAVA FILES - SETTING COOKIES

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class slabljlocks extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse res) throws
ServletException, IOException {

    PrintWriter out= res.getWriter();
    out.println("hi");
    Cookie c1= new Cookie("c1","IT");
    Cookie c2= new Cookie("c2","CSE");
    Cookie c3= new Cookie("c3","EEE");
    Cookie c4= new Cookie("c4","ECE");
    Cookie c5= new Cookie("c5","ETM");
    Cookie c6= new Cookie("c6","CIVIL");
    res.addCookie(c1);
    res.addCookie(c2);
    res.addCookie(c3);
    res.addCookie(c4);
    res.addCookie(c5);
    res.addCookie(c6);
    res.sendRedirect("http://localhost:8080/wtlab/abc12");

}

}
```

RETRIEVING COOKIES

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class slabljlocks2 extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse res) throws
ServletException, IOException
    {
        PrintWriter out= res.getWriter();
        Cookie ck[]=request.getCookies();
        out.println("<html><body><center><h1>List of
Cookies</h1></center><center></br>");
        for(int i=0;i<ck.length;i++)
        {
            out.println(ck[i].getName()+" : "+ck[i].getValue());//+"</br>");
        }
        out.println("</br>Total No. of Cookies: "+ck.length);
        out.println("</center></body></html>");
    }
}
```


XML FILE

```
<servlet>  
<servlet-name>CookieServlet</servlet-name>  
<servlet-class>slabljnocks</servlet-class>  
</servlet>
```

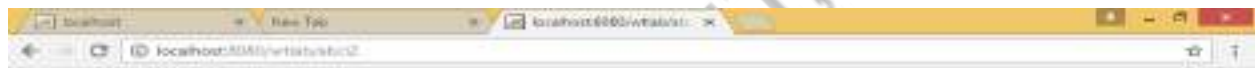
```
<servlet-mapping>  
<servlet-name>CookieServlet</servlet-name>  
<url-pattern>/abcl</url-pattern>  
</servlet-mapping>
```

```
<servlet>  
<servlet-name>CookieServlet2</servlet-name>  
<servlet-class>slabljnocks2</servlet-class>  
</servlet>
```

```
<servlet-mapping>  
<servlet-name>CookieServlet2</servlet-name>  
<url-pattern>/abcl2</url-pattern>  
</servlet-mapping>
```

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OUTPUT



AIM 7(i) Using JSP

A user validation web application , where the user submits the login name and password to the server. The name and password are checked against the data already available in Database and if the data matches , a successful login page is returned. Otherwise a failure message is shown to the user.

HTML FILE

```
<html>
<body>
<center>
<form action="jspAccess.jsp" name="f1">
<h1>Login Page</h1>
Login ID<input type="text" name="t1">
<span name="s1">
<br>
<br>
Password<input type="password" name="t2">
<br>
<br>
<input type="submit" value="Submit" name="b1">
</form>
</center>
</body>
</html>
```

JSP FILE

```
<% @ page import="java.io.*" %>
<% @ page import="java.util.*" %>
<% @ page import="java.sql.*" %>
<%
    Class.forName("com.mysql.jdbc.Driver");
    Connection conn=DriverManager.getConnection("jdbc:mysql://localhost/itb", "root","");
    Statement st=conn.createStatement();
    String n1=request.getParameter("t1");
    String n2=request.getParameter("t2");
    String query="select lid from student where lid='"+n1+"' and pwd='"+n2+"'";
    ResultSet x= st.executeQuery(query);
    if(x.next())
    {
        out.println("<html><center><h1>");
        out.println("Welcome "+n1);
        out.println("</h1></center></html>");
    }
    else
    {
        out.println("<html><center><h1>");
        out.println("Dear "+n1+", you are not a validated user.");
        out.println("</h1></center></html>");
    }
%>
```

OUTPUT



AIM 7(ii) Using JSP:

Modify the user validation web application to use an XML file instead of Database.

HTML FILE

```
<html>
<center>
<body>
<h1>Login Page</h1>
<form action="/wtlab/jspp/xmlaccess" name="f1">
Login ID<input type="text" name="t1">
<br>
<br>
Password<input type="password" name="t2">
<br>
<br>
<input type="submit" value="Submit" name="b1">
</form>
</body>
</center>
</html>
```

JSP FILE

```
<% @ page import=" org.w3c.dom.*" %>
```

```
<% @ page import=" javax.xml.parsers.*" %>
```

```
<% @ page import="java.io.*" %>
```

```
<% @ page import="java.util.*" %>
```

```
<% @ page import="java.sql.*" %>
```

```
<%
```

```
    try {
        int found=0;
        DocumentBuilderFactory Factory = DocumentBuilderFactory.newInstance();
        DocumentBuilder parser = Factory.newDocumentBuilder();
        Document doc = parser.parse("C:\\xampp\\tomcat\\webapps\\wlab\\domxml.xml");
        Element root=doc.getDocumentElement();
        String uname=request.getParameter("t1");
        String pwd=request.getParameter("t2");
        NodeList children = doc.getElementsByTagName("student");
        out.println("<html><body>");
        for (int temp = 0; temp < children.getLength(); temp++)
        {
            Node nNode = children.item(temp);
            Element eElement = (Element) nNode;

            if(uname.equals(eElement.getElementsByTagName("name").item(0).getTextContent()))
            {
                if(pwd.equals(
eElement.getElementsByTagName("pwd").item(0).getTextContent()))
                {
                    out.println("<h1><center>welcome "+uname);
```

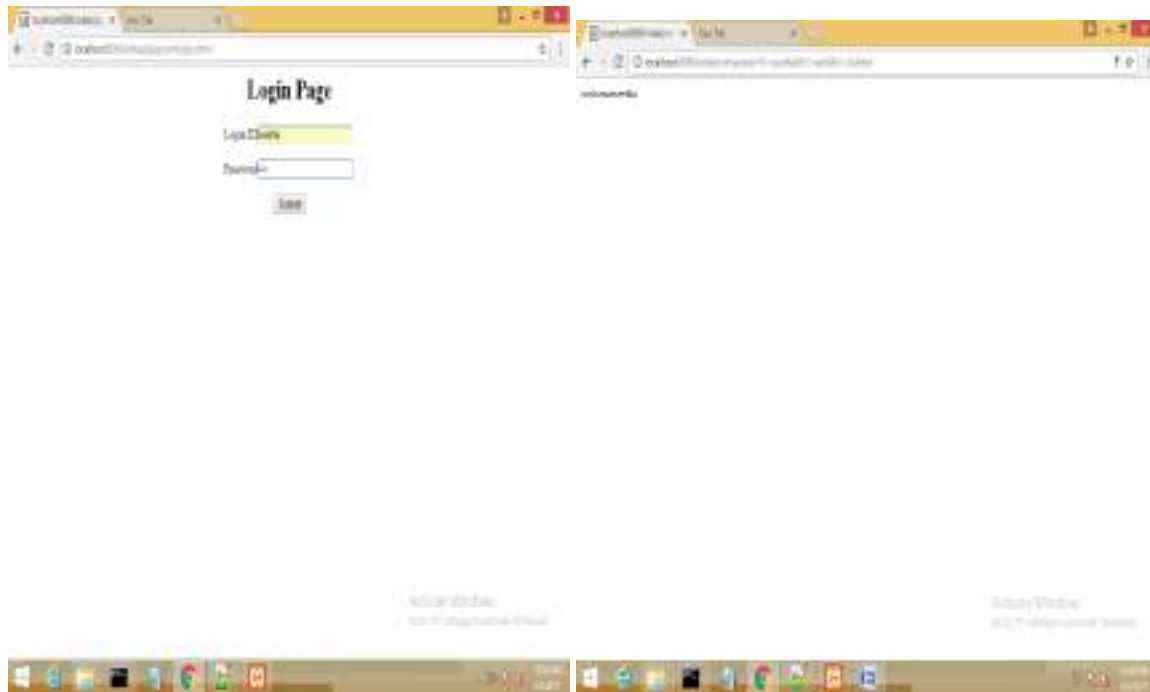
```
                found=1;
            }
        }
    }
    if(found==0)
        out.println("<h1><center>Invalid user");
        out.println("</h1></center></body></html>");
    catch (Exception e) {
        e.printStackTrace();
    }
    %>
```

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XML FILE

```
<?xml version="1.0"?>
<class>
<student>
<rollno>1</rollno>
<name>seetha</name>
    <pwd>ram</pwd>
<marks>85</marks>
</student>
<student>
<rollno>2</rollno>
<name>geetha</name>
    <pwd>ram</pwd>
<marks>95</marks>
</student>
<student>
<rollno>3</rollno>
<name>rama</name>
    <pwd>ram</pwd>
<marks>90</marks>
</student>
</class>
```

OUTPUT



AIM 7(iv) Using JSP

A simple calculator web application that takes two numbers and an operator(+,-,/,* and %) from an HTML page & returns the result page with the operation performed on the operands.

HTML FILE

```
<html>
<body><center><h1><u>CALCULATOR</u><br>
<form name="f1" action="/wtlab/jspp/jlab1calcij.jsp" method="get">
value1:<input type="text" name="v1">
<br /><br />
value2:<input type="text" name="v2">
<br /><br />
choose an operator:
<select name="ops">
    <option >operators</option>
    <option >*</option>
    <option >/</option>
    <option >+</option>
    <option >-</option>
    <option >%</option>
</select>
<br /><br />
<input type="submit" value="calculate">
<br /><br />
</form></h1></center>
</body></html>
```

JSP FILE

```
<% @ page import="java.io.*"%>
<% @ page import="java.util.*"%>
<% @ page import="java.text.*"%>
<%
    String o1=request.getParameter("v1");
    String o2=request.getParameter("v2");
    String o3=request.getParameter("ops");
    char o4=o3.charAt(0);
    int n1=Integer.parseInt(o1);
    int n2=Integer.parseInt(o2);
    int r=0;
    switch(o4)
    {
        case '+':r=n1+n2;break;
        case '%':r=n1%n2;break;
        case '-':r=n1-n2;break;
        case '*':r=n1*n2;break;
        case '/':r=n1/n2;break;
    }
    out.println("<html><body>Result is "+r);
    out.println("<form action='/wtlab/jspp/jlab1calci.html' method='get' ><input
type='submit' value='back'>");
%>
```

OUTPUT



AIM 7(v) Using JSP:

Modify the above program such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB ,it returns the value that was previously computed or it computes the result and returns it after storing the new query and result in DB

HTMLFILE

```
<html>
<body>
<form name="f1" action="jlab1calcij.jsp" method="get">
<center>
<h1>Calculator</h1>
<br>
<br>
Number<input type="text" name="val1">
<br>
<br>
Operator<select name="op">
<option >+</option>
<option >-</option>
<option >*</option>
<option >/</option>
<option >%</option>
</select>
<br>
<br>
Number<input type="text" name="val2">
</center>
```

```
</br>
```

```
</br>
```

```
<center>
```

```
<input type="submit" value="calculate">
```

```
</center>
```

```
</form>
```

```
</body><html>
```

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JSP FILE

```
<% @ page import = "java.io.*" %>
<% @ page import = "java.util.*" %>
<% @ page import = "java.sql.*" %>
<%
    Connection c;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
        Statement s = c.createStatement();
        response.setContentType("text/html");
        String v1= request.getParameter("val1");
        String v2= request.getParameter("val2");
        String o= request.getParameter("op");
        char op= o.charAt(0);
        int n1= Integer.parseInt(v1);
        int n2= Integer.parseInt(v2);
        int r=0;
        switch(op)
        {
            case '+':      r = n1 + n2 ; break;
            case '-':      r = n1 - n2 ; break;
            case '%':      r = n1 % n2 ; break;
            case '/':      r = n1 / n2 ; break;
            case '*':      r = n1 * n2 ; break;
        }
        String q="select * from calci where v1="+n1+" and v2="+n2+" and op='"+op+"'";
```



```

        ResultSet rss = s.executeQuery(q);
        String resultt = "";
        if (rss.next()) {
resultt = rss.getString(4);
        }
        else
        {
            String q2 = "insert into calci values('"+n1+"','"+n2+"','"+op+"','"+r+"');";
            out.println(q2);
            ResultSet rs2 = s.executeQuery(q2);
            resultt = Integer.toString(r);

        }
        out.println("<html><body><center>Result is : '"+resultt+" <br>");
        out.println("<form action='/wtlab/slab2calci.html' method='get'><input
type='submit' value='Go Back' ></form></center></body></html>");
    }
    catch (Exception e)
    {
        System.out.println(e);
    }
}
%>

```

OUTPUT





Calculator

nilai1

nilai2

dioperasikan



```
mysql> select * from calct;
+----+----+----+----+
| v1 | v2 | op | res |
+----+----+----+----+
| 2  | 2  | +  | 4   |
| 2  | 3  | +  | 5   |
| 2  | 4  | +  | 6   |
| 4  | 44 | +  | 48  |
| 4  | 4  | +  | 8   |
| 57 | 33 | +  | 90  |
| 44 | 44 | +  | 88  |
+----+----+----+----+
mysql>
```



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AIM 7(vi) Using JSP:

A web application takes a name as input and on submit it shows a hello<name>page where <name> is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank You <name> message with the duration of usage(hint;use session to store name and time).

HTML FILE

```
<html>
<body>
<center>
<form name="f1" action="jlab1login.jsp" method="get">
<h1>Login Page</h1>
Login ID<input type="text" name="l1">
<span name="s1">
<br>
<br>
Password<input type="password" name="l2">
<br>
<br>
<input type="submit" value="Login">
</form>
</center>
</body>
</html>
```

JSP FILE LOGIN FILE

```
<% @ page import = "java.io.*" %>
<% @ page import = "java.util.*" %>
<% @ page import= "java.text.*" %>
<%
    String uname = request.getParameter("l1");
    Date d1 = new Date();
    DateFormat df= new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
    String formatted= df.format(d1);
    Cookie c1 = new Cookie("name",uname);
    Cookie c2= new Cookie("logintime",formatted);
    response.addCookie(c1);
    response.addCookie(c2);
    out.println("<html><center><h1><body><form action='jlab1logout.jsp' name='f2'
method='get'> Welcome " +uname);
    out.println("<br><br> You Logged in at : "+d1+" <br><input type='submit'
value='Logout'></form></body></center></h1></html>");
%>
```

JSP FILE LOGOUT FILE

```
<% @ page import = "java.io.*" %>
<% @ page import = "java.util.*" %>
<% @ page import= "java.text.*" %>
<%
    Date loginTime= null;
    try
    {
        Cookie ck[] = request.getCookies();
        String uname= ck[0].getValue();
        String dst= ck[1].getValue();
        Date logoutTime = new Date();
        System.out.println("Login time : "+dst);
        DateFormat df = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
        loginTime= df.parse(dst);
        System.out.println("Login Time : "+loginTime);
        long sessionTime= logoutTime.getTime()-loginTime.getTime();
        out.println("<html><center><h1><body> Hello! You have Successfully
Logged Out!</br> Your Session duration is : ");
        out.println(sessionTime+" millisecs </body></center></h1></html>");
    }
    catch(Exception e)
    {
    }
%>
```

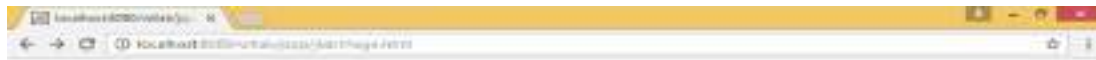
OUTPUT



JSP FILE

```
<% @ page import="java.io.*"%>
<% @ page import="java.util.*"%>
<% @ page import="java.text.*"%>
<%   String u1=request.getParameter("a1");
      String age=request.getParameter("a2");
      int age1=Integer.parseInt(age);
      if(age1<18)
      {
          out.println("<html><body><h1><center>You are not authorised
user!!!!...</center></h1></body></html>");
      }
      else
          out.println("<html><body><h1><center>welcome "+u1+"
</center></h1></body></html>");
%>
```

OUTPUT

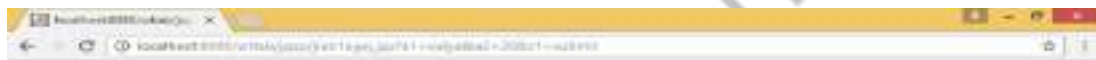


LOGIN PAGE

Please enter your name and age:

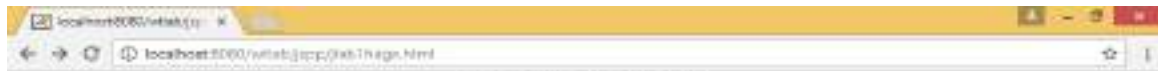
NAME:

AGE:



welcome vidya





LOGIN PAGE

Please enter your name and age:

NAME:

AGE:

Activate Windows
Go to PC settings to activate Windows.



You are not authorised user!!!!...

Activate Windows
Go to PC settings to activate Windows.



AIM 7(viii) Using JSP:

A web application for implementation:

The user is first served a login page which takes user's name and password. After submitting the details the server checks these values against the data from a database and takes the following decisions.

If the name and password matches, serves a welcome page with user's full name.

If name is not found in database, serves a registration page, where user's full name is asked and on submitting the full name, it stores, the login name, password and full name in the database (use sessions for storing the submitted login name and password).

HOME PAGE

```
<html>
<body>
<center>
<form name="f1" action="sjvalid1.jsp" method="get">
<h1>LOGIN PAGE</h1>
LOGIN ID:<input type="text" name="l1">
<br>
<br>
PASSWORD:<input type="password" name="l2"><br><br>
<input type="submit" value="Login" >
</form>
</center>
</body>
</html>
```

REGISTRATION PAGE

```
<html>
<body>
<center>
<form name="f1" action="sjvalid2.jsp" method="get">
<h1>REGISTRATION PAGE</h1>
LOGIN ID:<input type="text" name="r1">
<br>
<br>
PASSWORD:<input type="password" name="r2"><br><br>
<input type="submit" value="submit" >
</form>

</center>
</body>
<body>
```

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VALIDATION FILE

```
<% @ page import = "java.io.*" %>
<% @ page import = "java.util.*" %>
<% @ page import = "java.sql.*" %>
<%
    Connection c;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
            Statement s = c.createStatement();
            response.setContentType("text/html");
            String v1= request.getParameter("l1");
            String v2= request.getParameter("l2");
            String q="select * from student where lid='"+v1+"' and pwd='"+v2+"'";
            ResultSet rss=s.executeQuery(q);
            String resultt="";
            if(rss.next()) {
resultt = rss.getString(1);
                out.println("<html><body><center>Welcome: "+resultt+" <br>");
            }
            else
            {

                out.println("<html><body>Please register...<form action='svalid2.html'
method='get'><input type='submit' value='submit'>");
            }
        }
    %>
```

```
    }  
    catch(Exception e)  
    {  
        System.out.println(e);  
    }%>
```

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REGISTRATION

```
<% @ page import = "java.io.*" %>
<% @ page import = "java.util.*" %>
<% @ page import = "java.sql.*" %>
<%
Connection c;
    try{
        Class.forName("com.mysql.jdbc.Driver");
        c=DriverManager.getConnection("jdbc:mysql://localhost/itb","root","");
        Statement s = c.createStatement();
        response.setContentType("text/html");
        String v1= request.getParameter("r1");
        String v2= request.getParameter("r2");
        String q="insert into student values('"+v1+"','"+v2+"')";
        ResultSet r=s.executeQuery(q);
        if(r.next()){
            out.println("<html><body bgcolor='pink'><center><h1>Succesfully Registered
</br>welcome "+v1+"</h1></center></boby></html>");
        }
        else
        {
            out.println("<html><body>Please register...<form action='svalid2.html'
method='get'><input type='submit' value='submit'>");
        }
    }
    catch(Exception e){
        System.out.println(e);
    }
%>
```

OUTPUT





LOGIN PAGE

LOGIN ID

PASSWORD

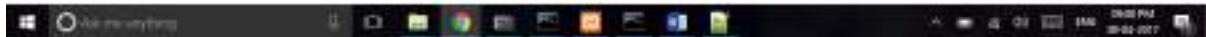


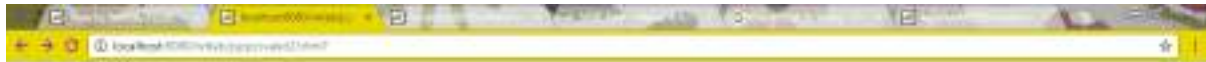


REGISTRATION PAGE

LOGIN ID:

PASSWORD:





REGISTRATION PAGE

LOGIN ID:

PASSWORD:



```
mysql [110]> select * from student;
+----+-----+
| ID  | name |
+----+-----+
| 101 | abc  |
| 102 | abc1 |
| 103 | abc2 |
| 104 | abc3 |
| 105 | abc4 |
+----+-----+
1 row in set (0.00 sec)

mysql [110]>
```



AIM 7(ix) Using JSP

A web application that lists all cookies stored in the browser on clicking“ list cookies” button. Add cookies if necessary.

HTML FILE

```
<html>
<body><center>
<form action="/wtlab/jspp/scc1.jsp" method="get">
<h1>Cookie</h1>
<input type="submit" value="Set Cookies" name="btn">
</center>
</body>
</html>
```

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JSP FILES

SETTING COOKIES

```
<% @ page import="java.io.*"%>
<% @ page import="java.util.*"%>
<% @ page import="javax.servlet.*"%>
<% @ page import="javax.servlet.http.*"%>
<%

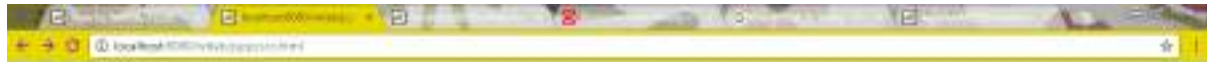
    out.println("hi");
    Cookie c1= new Cookie("c1","IT");
    Cookie c2= new Cookie("c2","CSE");
    Cookie c3= new Cookie("c3","EEE");
    Cookie c4= new Cookie("c4","ECE");
    Cookie c5= new Cookie("c5","ETM");
    Cookie c6= new Cookie("c6","CIVIL");
    response.addCookie(c1);
    response.addCookie(c2);
    response.addCookie(c3);
    response.addCookie(c4);
    response.addCookie(c5);
    response.addCookie(c6);
    response.sendRedirect("http://localhost:8080/wtlab/jspp/ssc2.jsp");

%>
```

RETRIEVING COOKIES

```
<% @ page import="java.io.*"%>
<% @ page import="java.util.*"%>
<% @ page import="javax.servlet.*"%>
<% @ page import="javax.servlet.http.*"%>
<%
    Cookie ck[]=request.getCookies();
    out.println("<html><body><center><h1>List of
Cookies</h1></center><center><br>");
    for(int i=0;i<ck.length;i++)
    {
        out.println(ck[i].getName()+" : "+ck[i].getValue());//+"<br>");
    }
    out.println("<br>Total No. of Cookies: "+ck.length);
    out.println("</center></body></html>");
%>
```


OUTPUT



Cookie

Get Cookies



List of Cookies

JSESSIONID=EEB64B05-ETM65-CIVIL-SESSIONID=EBFED9CEB63AAAE28647D1834E9D
Total No. of Cookies: 1

