EXPERIMENT-1

PROBLEM STATEMENT: Install the following on local machine

Apache Web Server

Install MySQL

Install PHP and configure it to work with apache web server and MySQL

Tomcat Application Server Locally

AIM: Installing and configuring Apache web server, MySQL with PHP in Linux Environment
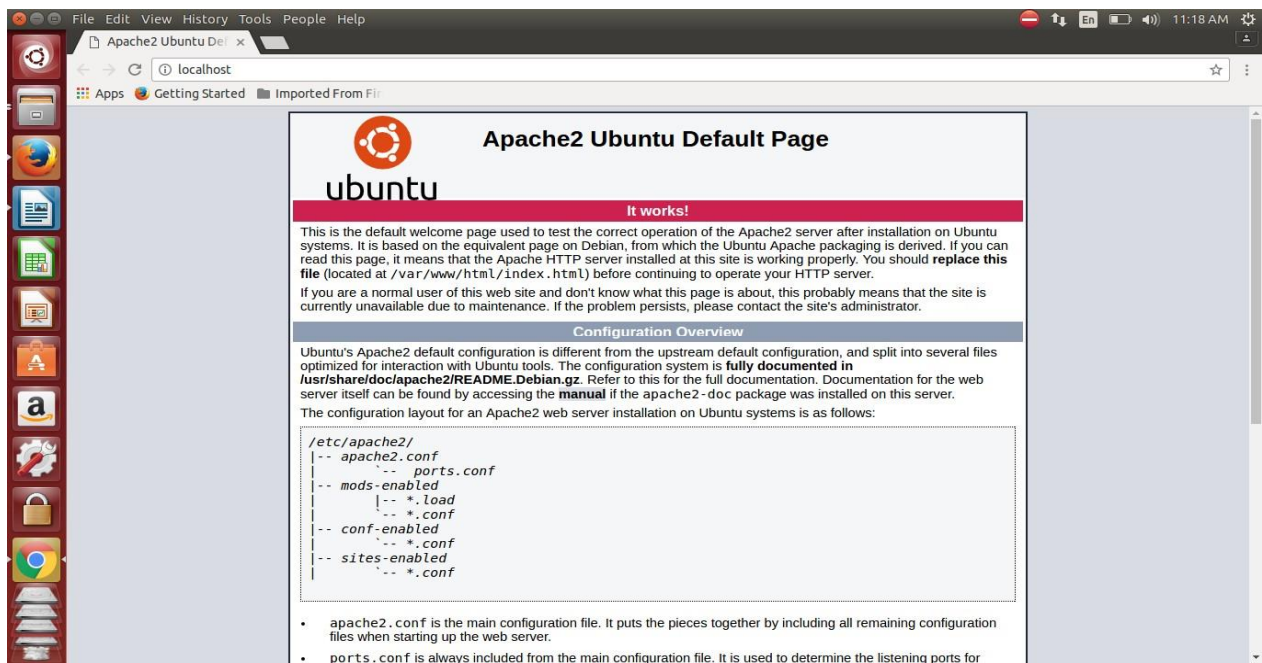
PROCEDURE:

Step1: Install Apache Web server

```
$ sudo apt-get update
$ sudo apt-get install apache2
```

To verify the installation use the following statement

http://localhost or http://server-public-ip-address

OUTPUT:

Step2: **Installation of mysql server**

$ sudo apt-get install mysql-server php5-mysql

During the installation, your server will ask you to select and confirm a password for the MySQL "root" user. This is an administrative account in MySQL that has increased privileges. Think of it as being similar to the root account for the server itself (the one you are configuring now is a MySQL-specific account however).

When the installation is complete, we need to run some additional commands to get our MySQL environment set up securely.

First, we need to tell MySQL to create its database directory structure where it will store its information. You can do this by typing: **$ sudo mysql_install_db**

Run a security script that will remove some dangerous defaults and lock down access to our database system a little bit.

$ sudo mysql_secure_installation

Enter the password you set for the MySQL root account. Next, it will ask you if you want to change that password. If you are happy with your current password, type "n" for "no" at the prompt.

For the rest of the questions, you should simply hit the "ENTER" key through each prompt to accept the default values.

Step3: Installation of PHP

$ sudo apt-get install php5 libapache2-mod-php5 php5-mcrypt

Testing the PHP:

if a user requests a directory from the server, Apache will first look for a file called index.html. We want to tell our web server to prefer PHP files, so we'll make Apache look for an index.php file first. To do this, type this command to open the dir.conf file in a text editor with root privileges:

$ sudo nano /etc/apache2/mods-enabled/dir.conf

```
<IfModule mod_dir.c>
   DirectoryIndex index.html index.cgi index.pl index.php index.xhtml index.htm
</IfModule>
```

The above code need to be replace by the following code:

```
<IfModule mod_dir.c>
    DirectoryIndex index.php index.html index.cgi index.pl index.xhtml index.htm
</IfModule>
```

Save and close the file by pressing "CTRL-X". Restart the apache server

$ sudo service apache2 restart

Test PHP Processing on your Web Server :(Create a file info.php)

In order for Apache to find the file and serve it correctly, it must be saved to a very specific directory, which is called the "web root". In Ubuntu 14.04, this directory is located at /var/www/html/. We can create the file at that location by typing:

$ sudo nano /var/www/html/info.php

This will open a blank file. put the following text, which is valid PHP code, inside the file:
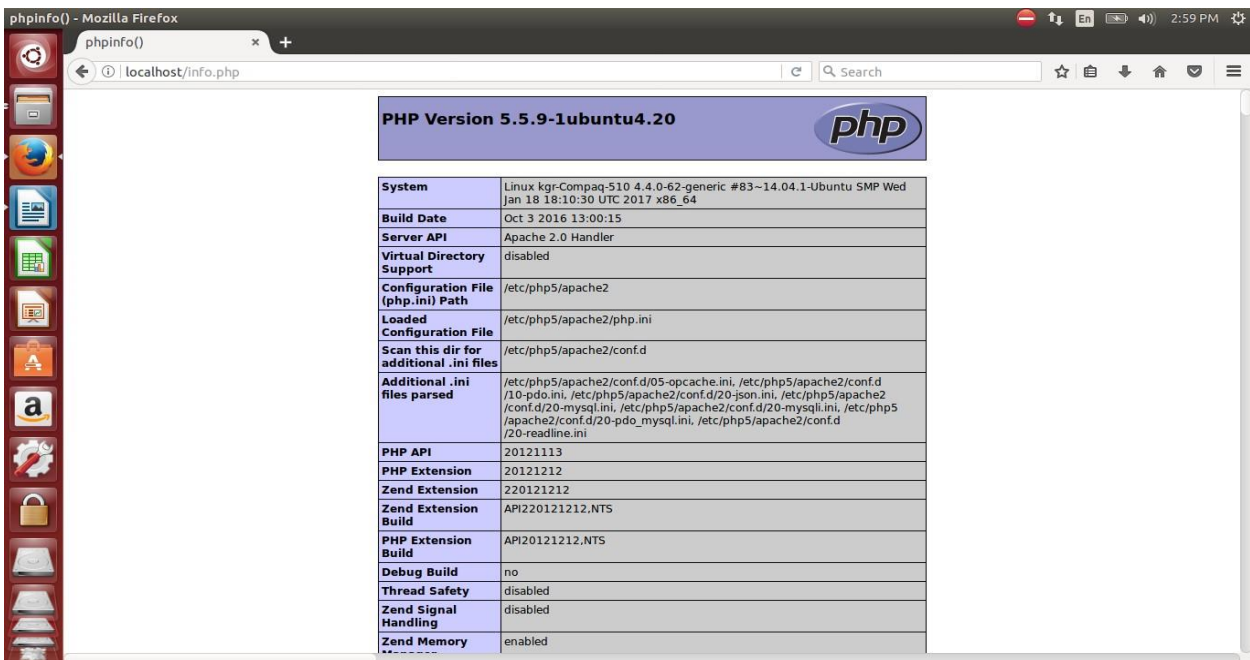
`<?php phpinfo(); ?>`
save and close the file.

The address you want to visit will be: http://your_server_IP_address/info.php

EX: http://localhost/info.php

OUTPUT:

Step 4: Installation & Configuration of Tomcat8 Application Server in Ubuntu 14.04

    i. Download Apache Tomcat from the follwoing link:

http://tomcat.apache.org/download-80.cgi
Select the version 8.0.42 and click on Zip under Core.

    ii. Extact the downloaed apache tomcat8 into documents folder

    iii. Open Eclipse Environment

- Click on Servers Tab
- Click on No servers are available. Click this link to create a new server...
- Click Tomcat v8.0 Server and Next select apache installation directory and click on Finish.
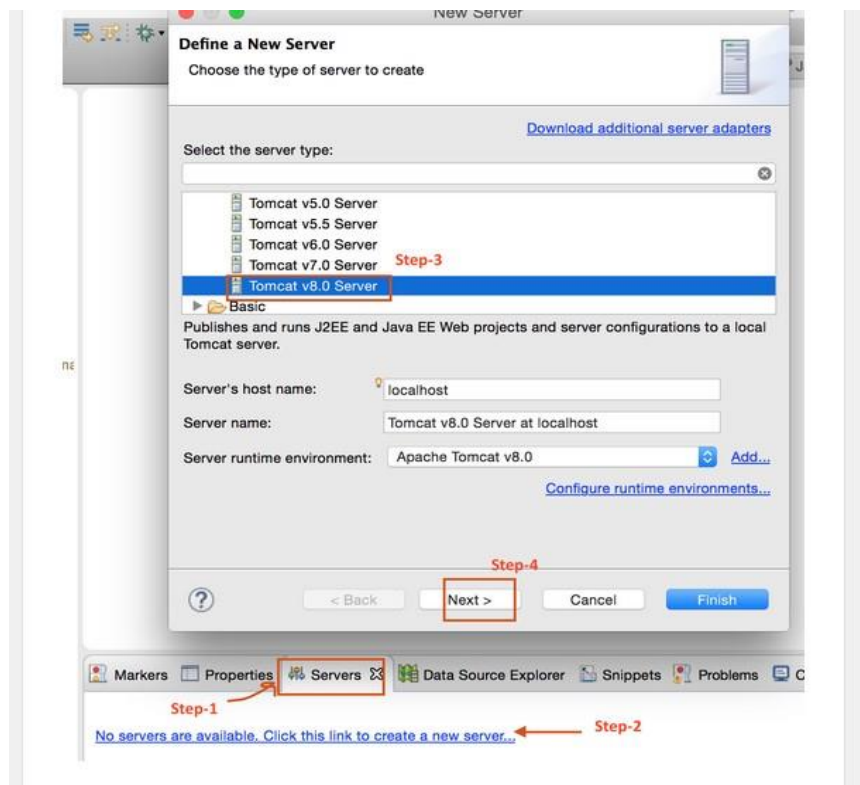
You should see Tomcat v8.0 Server at localhost [Stopped, Republish] under Servers tab. Double click on it verify HTTP ports information. By default HTTP port is 8080.

Right click on the server in "Servers" view, select "Properties".

- In the "General" panel, click on the "Switch Location" button.
- The "Location: [workspace metadata]" should replace by something else.
- Open the Overview screen for the server by double clicking it.
- In the Server locations tab , select "Use Tomcat location".
- Save the configurations and restart the Server.

Type the link http://localhost:8080 in browser o access the tomcat home page and manager.
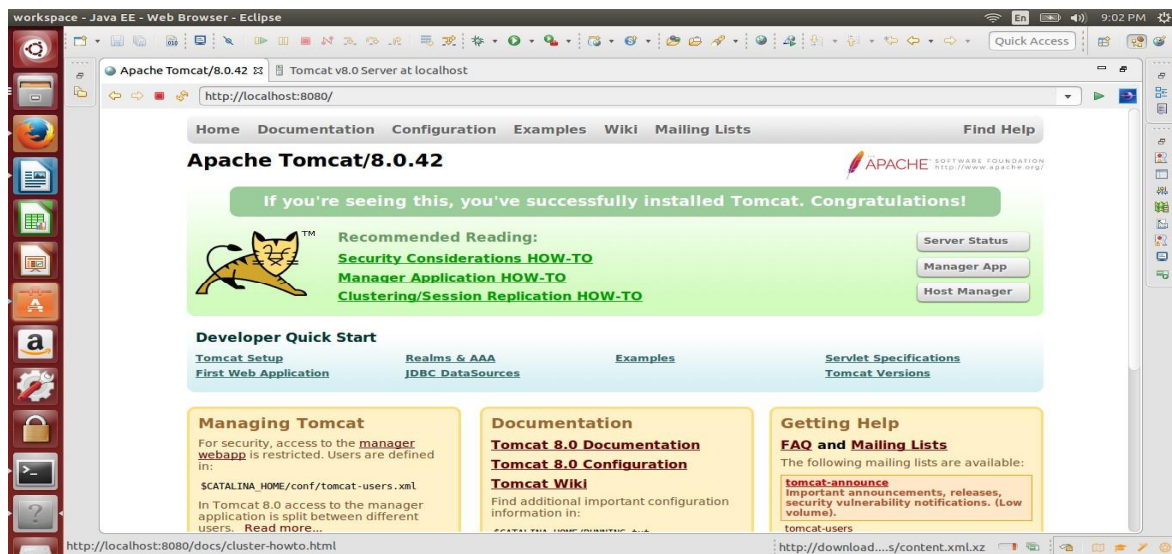
Click on webapps manager in Managing Tomcat option and enter username: admin and paswword: password then it will show the list applications deployed on to webapps in tomcat.

En 9:09 PM

/manager   Tomcat v8.0 Server at localhost

http://localhost:8080/manager/html

APACHE
SOFTWARE FOUNDATION

Tomcat Web Application Manager

Message:	OK

Manager

List Applications	HTML Manager Help	Manager Help	Server Status

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

http://tomcat.apache.org/   http://download.o...ples/content.jar

EXPERIMENT-2

PROBLEM STATEMENT:

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

AIM: Sorting Array elements in descending order.

PROGRAM:

```
<!DOCTYPE html>

<html>

<body>


<h2>JavaScript Array Sort</h2>


<p>Click the button to sort the array in descending order.</p>


<button onclick="myFunction()">Try it</button>


<p id="demo"></p>


<script> var points = [40, 100, 1, 5, 25, 10];
document.getElementById("demo").innerHTML =
points;


function myFunction() {     points.sort(function(a, b){return
b - a});    document.getElementById("demo").innerHTML
= points;

}
```

`</script>`

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

OUTPUT:
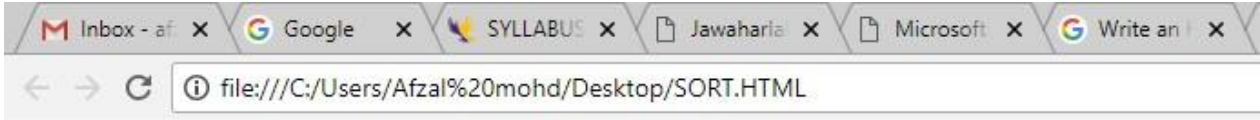
JavaScript Array Sort

Click the button to sort the array in descending order.

[Try it]

40,100,1,5,25,10
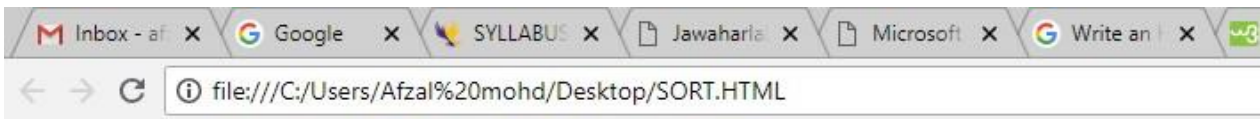
JavaScript Array Sort

Click the button to sort the array in descending order.

[Try it]

100,40,25,10,5,1

EXPERIMENT - 3

PROBLEM STATEMENT:

Write html page to take a number from text field in the range 0 to 999 and display in other text field in words. If number is out of range display alert with "out of range" & display "Not a number" if it is not a number.

AIM: Read the number from a text field and display in words format in another text field.

PROGRAM:

```
<html>

<script type="text/javascript"> var

nume=document.getElementById('num').value;

function isNumeric(){ var

elem=document.niw.num.value; if(elem!="") {

var numericExpression = /^[0-9]+$/;

        if(elem<0||elem>999)

 {  alert("Please  Enter  Number  from  0  to  999");

document.niw.num.value="";  return false;

    }

    else if(elem.match(numericExpression)){

            return true;

    }else{   alert("Please Enter Only Number ");

            document.niw.num.value="";

    return false;

        } } }


function numinwrd()
```

```javascript
{ var
numbr=document.getElementById('num').value;
var str=new String(numbr)
var splt=str.split(""); var rev=splt.reverse(); var once=['Zero', ' One', 'Two', 'Three', 'Four','Five', 'Six',
'Seven', 'Eight', 'Nine']; var twos=['Ten', ' Eleven', ' Twelve', ' Thirteen', ' Fourteen', ' Fifteen', '
Sixteen', ' Seventeen', ' Eighteen',
' Nineteen']; var tens=[ '', 'Ten', ' Twenty', ' Thirty', ' Forty', ' Fifty', ' Sixty', ' Seventy', '
Eighty',  ' Ninety' ];  numlen=rev.length;  var  word=new  Array();  var  j=0;
for(i=0;i<numlen;i++) { switch(i) { case 0:

if((rev[i]==0) || (rev[i+1]==1))
{word[j]='';} else {word[j]=once[rev[i]];}
word[j]=word[j] ; break; case 1:
abovetens(); break; case 2:

if(rev[i]==0)   {word[j]='';}      else
if((rev[i-1]==0)   ||   (rev[i-2]==0)   )
{word[j]=once[rev[i]]+"Hundred ";}

else
{word[j]=once[rev[i]]+"Hundred and";}
break; case 3:

if(rev[i]==0 || rev[i+1]==1) {word[j]='';}
else{word[j]=once[rev[i]];}
default:break;}j++;
} function
abovetens()

{if(rev[i]==0){word[j]='';} else if(rev[i]==1){word[j]=twos[rev[i-1]];}else{word[j]=tens[rev[i]];}
```

```
} word.reverse(); var

finalw='';

for(i=0;i<numlen;i++)

{finalw= finalw+word[i];

 }

document.niw.word.value=finalw;

}

</script>

<form name="niw">

<table align=center  width=100% style="font-size: 12px; display: block;">

 <tr><td>

<table  width=100% style="font-family: Monaco, Verdana, Sans-serif; font-size: 12px;

display: block;  margin-top: 14px;padding: 12px 20px 12px 20px;">

 <tr> <td>Number:</td>

<td><input type="text" name="num" id="num" maxlength=9 onKeyup="isNumeric()"></td>

<td><input type="button" name="sr1" value="Click Here" onClick="numinwrd()"></td>

<td>Number in Words:</td>

<td><input type="text" name="word" id="word" size=30></td></tr>

</table>

</td></tr>

</table>

</form>

 </html>
```

OUTPUT:
If the value is in range and enters value is a number
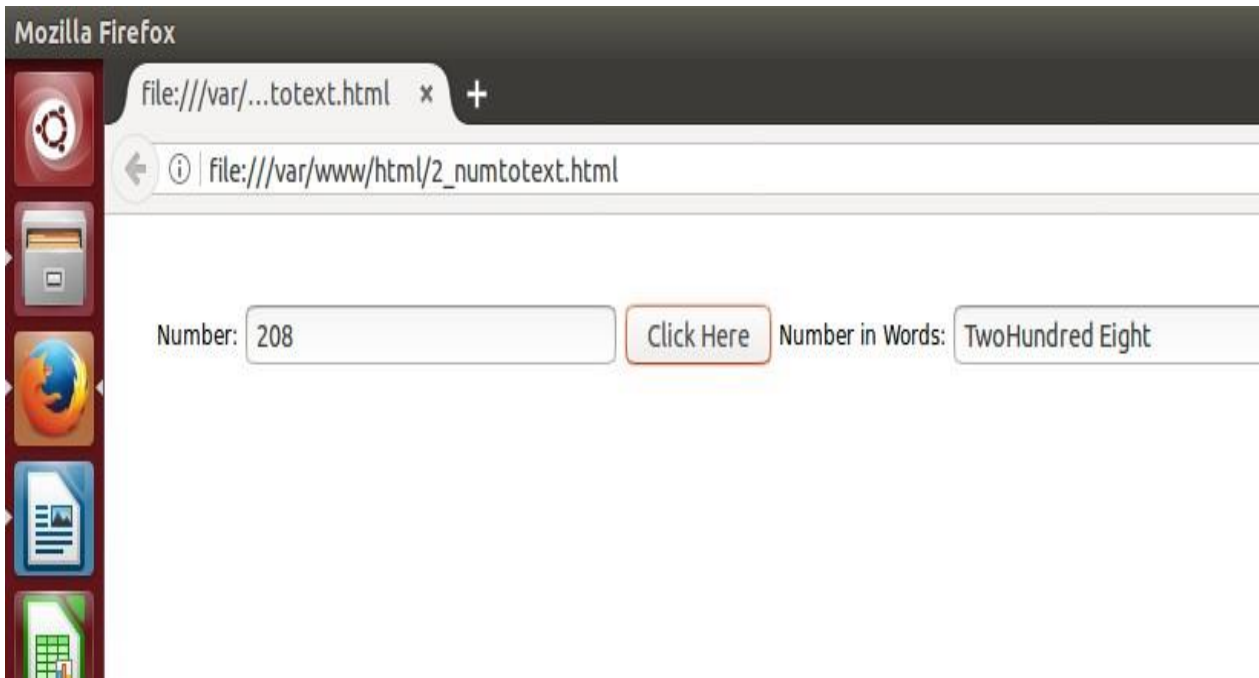
If the value is out of range

Please Enter Number from 0 to 999

OK
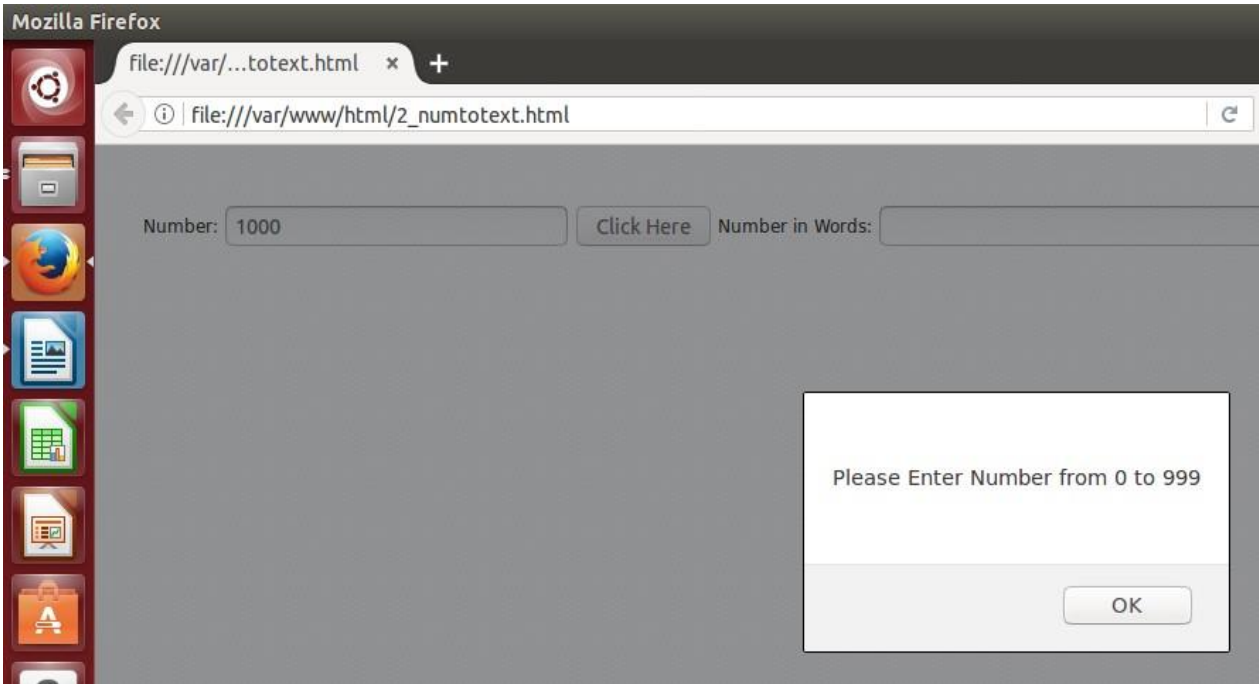
If the given value is not a number

file:///var/...totext.html

file:///var/www/html/2_numtotext.html

Number: # | Click Here | Number in Words:

Please Enter Only Number

☐ Prevent this page from creating additional dialogs

OK

EXPERIMENT-4

Write html page which can take multi-line text and display the no. Of characters, words and lines in the text entered using alert message.

AIM:

Html page which can take multi-line text and display the no. Of characters, words and lines in the text entered using alert message.

PROGRAM:

```
<html>

<script type="text/javascript"> function countWCL() { var

textarea=document.getElementById("tarea"); var text = textarea.value; value = "Words: " +

(text.split(/\b\S+\b/).length - 1) + "  Characters: " + text.replace(/\s/g, "").length + "

/ " + text.replace(/\n/g, "").length + "lines:" + text.split("\n").length; alert(value);

}

</script>

<form name="cwl">

Enter Multi Line Text <br>

<textarea name="string" id="tarea" rows=4 cols=30></textarea>

<input type="button" name="sub" value="count" onClick="countWCL()"> </form>

</html>
```

OUTPUT:
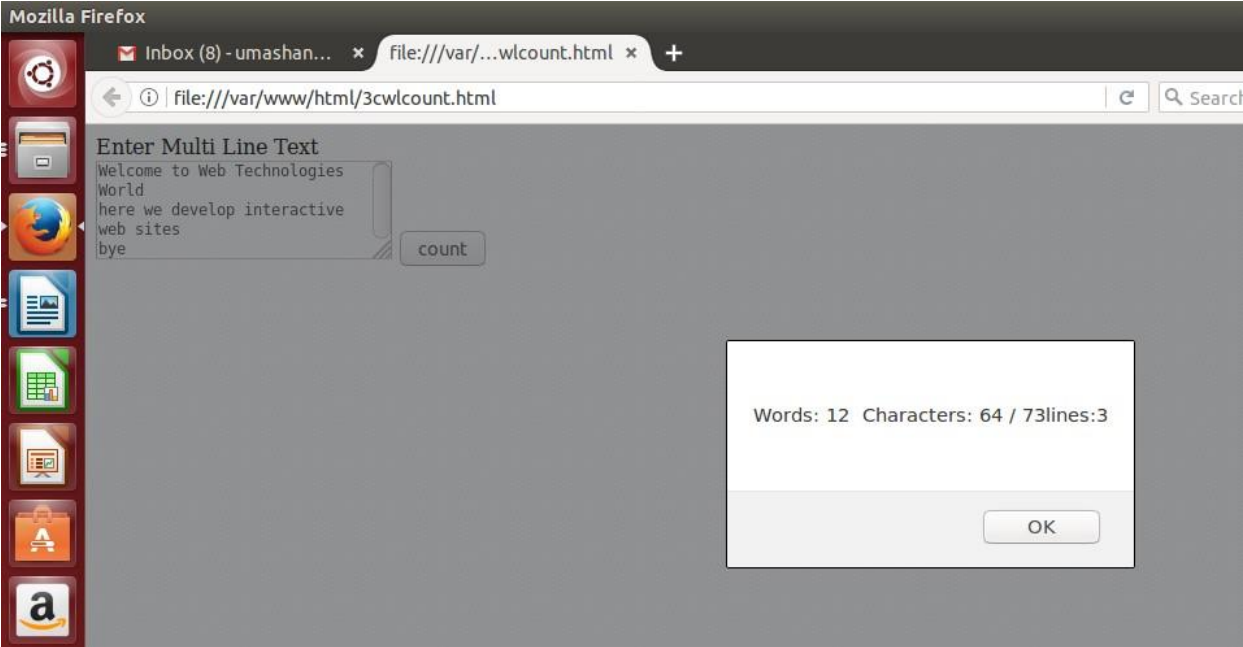
EXPERIMENT-5

Choose a country name option from selection box and display it in capital letters by applying CSS style such as color, bold and font size.

AIM:

Displaying the selected country name in web page by assigning css styles such as color,bold and font size.

PROGRAM:

```html
<html>

<title>  country name as

capital

 </title>

<head>    <style>  div.capstr{  color:  red;

font-style:   bold;   font-size:12pt;   text-

transform: uppercase;

}

</style>

</head>

<body>

<select id="country" onchange="getcap();">

 <option value="india">india </option>

 <option value="sri lanka">sri lanka </option>

 <option value="china">china </option>

 <option value="london">london </option>

 <option value="uk">uk </option>

</select>
```

```
<div class="capstr" id="capcountry"> </div>

<script type="text/javascript"> function

getcap()

{ document.getElementById("capcountry").innerHTML =

document.getElementById("country").value;  }

</script>

</div >

 </body>

 </html>
```

OUTPUT:
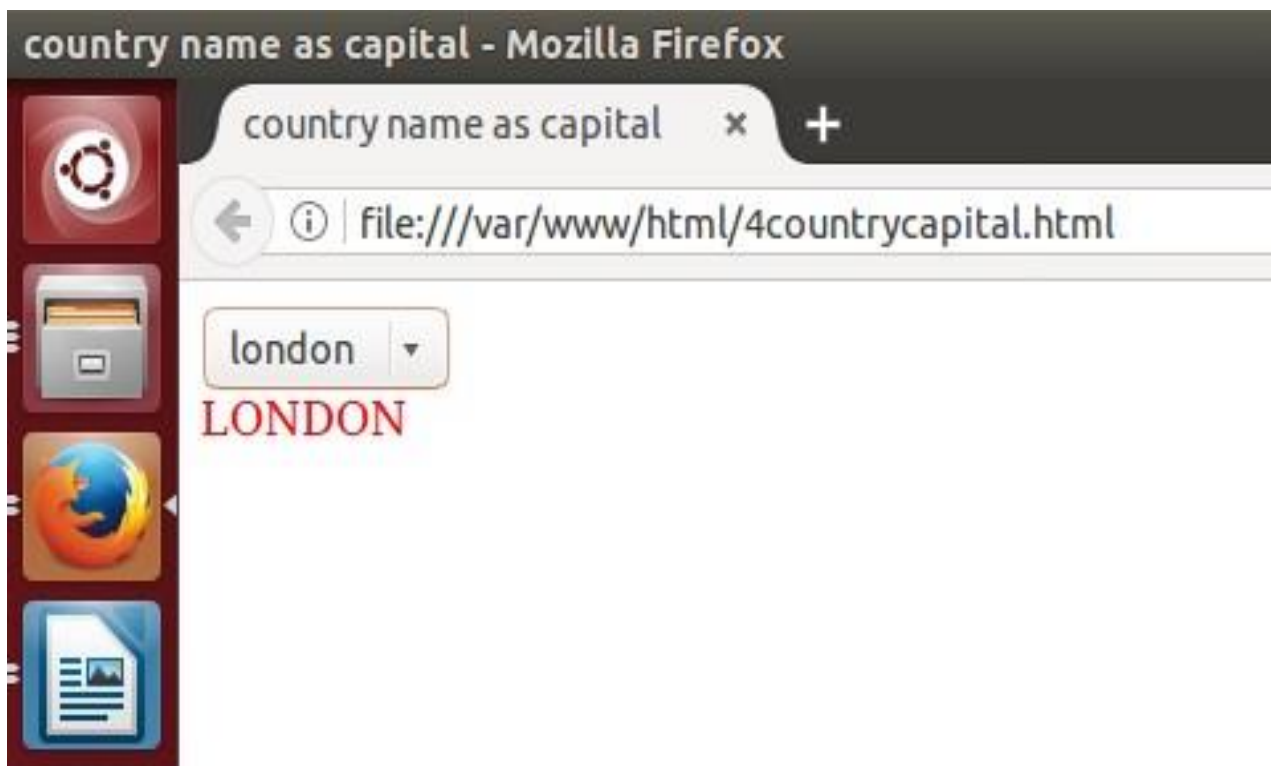
EXPERIMENT-6

Create an xml document that contains 10 users information. Write a java program, which takes user id and returns the user details by taking from xml document using DOM Parser.

AIM: generating an xml file containing 10 users information. display the user details by taking user information from xml file using java progrgam.

PROGRAM:

users.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>

<employees>
    <employee id="501">
        <firstName>Sunil</firstName>
        <lastName>Yadav</lastName>
        <location>Hyd</location>
    </employee>
    <employee id="502">
        <firstName>Trilok</firstName>
        <lastName>Reddy</lastName>
        <location>Chevella</location>
    </employee>
    <employee id="503">
        <firstName>Mallikarjun</firstName>
        <lastName>Tiger</lastName>
        <location>Forest</location>
    </employee>
    <employee id="504">
        <firstName>Neelima</firstName>
        <lastName>Lakshmi</lastName>
        <location>MP</location>
    </employee>
    <employee id="505">
        <firstName>Abhi</firstName>
        <lastName>Shambu</lastName>
        <location>LD</location>
    </employee>
    <employee id="506">
        <firstName>Nikitha</firstName>
```

```xml
        <lastName>Reddy</lastName>
        <location>UP</location>
    </employee>
    <employee id="507">
        <firstName>Ashwini</firstName>
        <lastName>Reddy</lastName>
        <location>ADB</location>
    </employee>
    <employee id="508">
        <firstName>Vinod</firstName>
        <lastName>Kumar</lastName>
        <location>MGD</location>
    </employee>

    <employee id="509">
        <firstName>Raghu</firstName>
        <lastName>Reddy</lastName>
        <location>MBD</location>
    </employee>
    <employee id="510">
        <firstName>Uma Shankar</firstName>
        <lastName>Kommana</lastName>
        <location>DSNR</location>
    </employee>
</employees>
```

6(a) EMPLOYEEPARSING.JAVA (USING DOM PARSER)

```java
import org.w3c.dom.*;

import javax.xml.parsers.*;

import java.io.*;

public class EmployeeParsing {

    public static void main(String[] args)throws Exception {
        //Get Document Builder
```

```java
DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();
DocumentBuilder builder = factory.newDocumentBuilder();
 //Build Document
 Document document = builder.parse(new File("User.xml"));
//Normalize the XML Structure; It's just too important !!
//document.getDocumentElement().normalize();
// TODO Auto-generated method stub
//Here comes the root node
Element root = document.getDocumentElement();
BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter User Id");

        String id=br.readLine();

        //Get all employees

        NodeList nList = document.getElementsByTagName("employee");

        System.out.println(root.getNodeName());

         System.out.println("=============================");
   for (int temp = 0; temp < nList.getLength(); temp++)

        {

         Node node = nList.item(temp);
  System.out.println("");    //Just a separator    if
(node.getNodeType() == Node.ELEMENT_NODE)

          {

             //Print employee's details of given id
        Element eElement = (Element) node;
   if(eElement.getAttribute("id").equals(id))

             {
   System.out.println("Employee id : "   + eElement.getAttribute("id"));      System.out.println("First
Name : " +

eElement.getElementsByTagName("firstName").item(0).getTextContent());
System.out.println("Last Name : "   +
```

eElement.getElementsByTagName("lastName").item(0).getTextContent());
System.out.println("Location : "   +

eElement.getElementsByTagName("location").item(0).getTextContent());
                  }
            }
      }
}
}

OUTPUT:
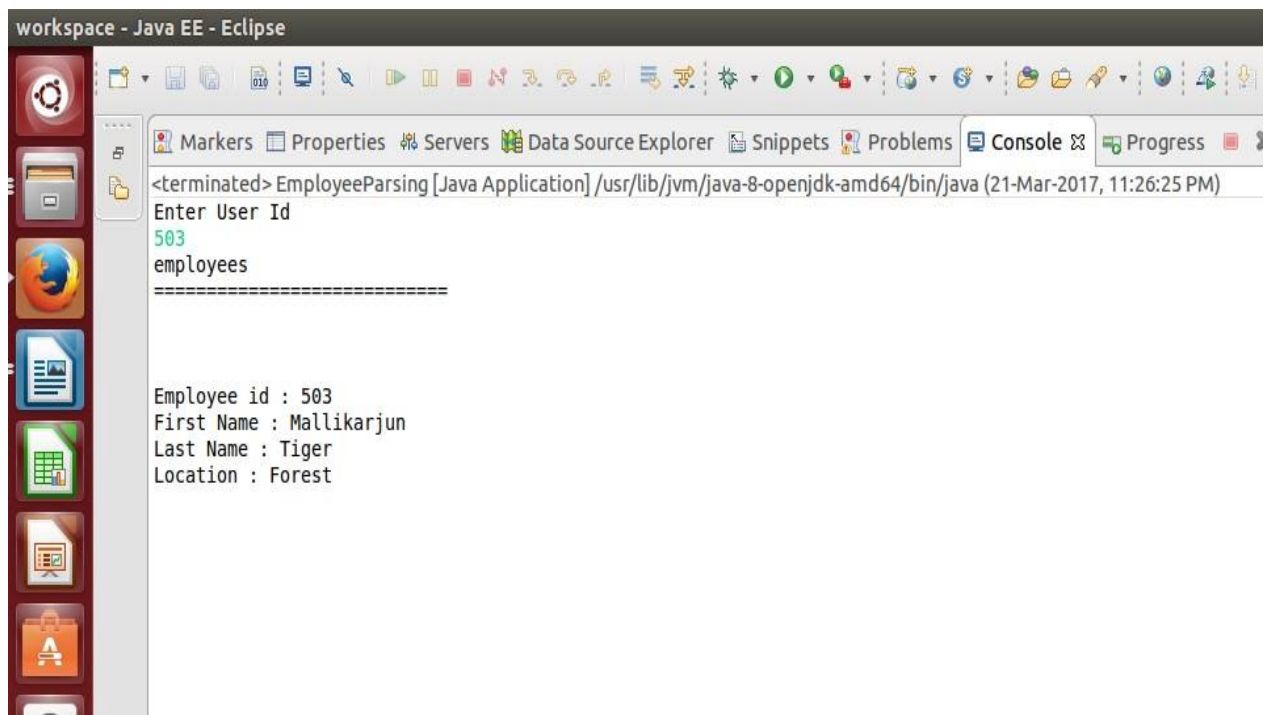
6(b) SAX PARSER

```java
package xmltojavasax;

public class Employee {

   private String id;
private String firstname;
private String lastname;
   private String location;

   public String getId() {
      return id;
   }
   public void setId(String id) {
      this.id = id;
   }
   public String getFirstName() {
      return firstname;
   }

   public void setFirstName(String firstname) {
      this.firstname = firstname;
   }

   public String getLastName() {
      return lastname;
   }

   public void setLastName(String lastname) {
      this.lastname = lastname;
   }

   public String getLocation() {
      return location;
   }

   public void setLocation(String location) {
      this.location = location;
   }
   @Override    public String toString() {        return "Employee:: ID="+this.id+" First
Name=" + this.firstname + " LastName=" + this.lastname +
         " location=" + this.location;
   }
```

```
  }
```

MyHandler.java

package **xmltojavasax;**
import java.util.ArrayList;
import java.util.List;

import org.xml.sax.Attributes;
import org.xml.sax.SAXException;
import org.xml.sax.helpers.DefaultHandler;

import xmltojavasax.Employee;

public class MyHandler **extends** DefaultHandler {

```
    //List to hold Employees object
private List<Employee> empList = null;
private Employee emp = null;
```

```
    //getter method for employee list
public List<Employee> getEmpList() {
        return empList;
    }
```

```
    boolean bfirstname = false;
boolean blastname = false;
    boolean blocation = false;
```

```
    @Override
    public void startElement(String uri, String localName, String qName, Attributes attributes)
throws SAXException {
```

```
        if (qName.equalsIgnoreCase("Employee")) {
            //create a new Employee and put it in Map
            String id = attributes.getValue("id");
            //initialize Employee object and set id attribute
            emp = new Employee();
            emp.setId(id);
//initialize list                 if
(empList == null)
            empList = new ArrayList<>();
        } else if (qName.equalsIgnoreCase("firstname")) {
            //set boolean values for fields, will be used in setting Employee variables
bfirstname = true;
```

```java
        } else if (qName.equalsIgnoreCase("lastname")) {
blastname = true;
        } else if (qName.equalsIgnoreCase("location")) {
blocation = true;
        }
    }

    @Override
    public void endElement(String uri, String localName, String qName) throws SAXException {
if (qName.equalsIgnoreCase("Employee")) {
        //add Employee object to list
empList.add(emp);
    }
    }

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

        if (bfirstname) {
        //age element, set Employee age
        emp.setFirstName(new        String(ch,        start,
length));            bfirstname = false;        } else if
(blastname) {            emp.setLastName(new String(ch,
start, length));            blastname = false;        } else if
(blocation) {
        emp.setLocation(new String(ch, start, length));
blocation = false;
        }
    }
}


EmployeeSaxParser.java            package
xmltojavasax;                    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;  import
java.io.*; import java.util.List; public class
EmployeeSaxParser  {  public  static  void
main(String argv[]) {
    SAXParserFactory saxParserFactory = SAXParserFactory.newInstance();
try {
            SAXParser saxParser = saxParserFactory.newSAXParser();
        MyHandler handler = new MyHandler();
saxParser.parse(new File("users.xml"), handler);
            //Reading employee id from user
            BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
```

```java
                    System.out.println("Enter User Id");
                String id=br.readLine();
          List<Employee> empList = handler.getEmpList();   //Get Employees list
          for(Employee emp : empList)                    //print employee information
                if(emp.getId().equals(id))
                {
          System.out.println(emp.getFirstName());
          System.out.println(emp.getLastName());
          System.out.println(emp.getLocation());
                }
          } catch(Exception  e) {
e.printStackTrace();
          }
          }
}
```

OUTPUT:
users.xml
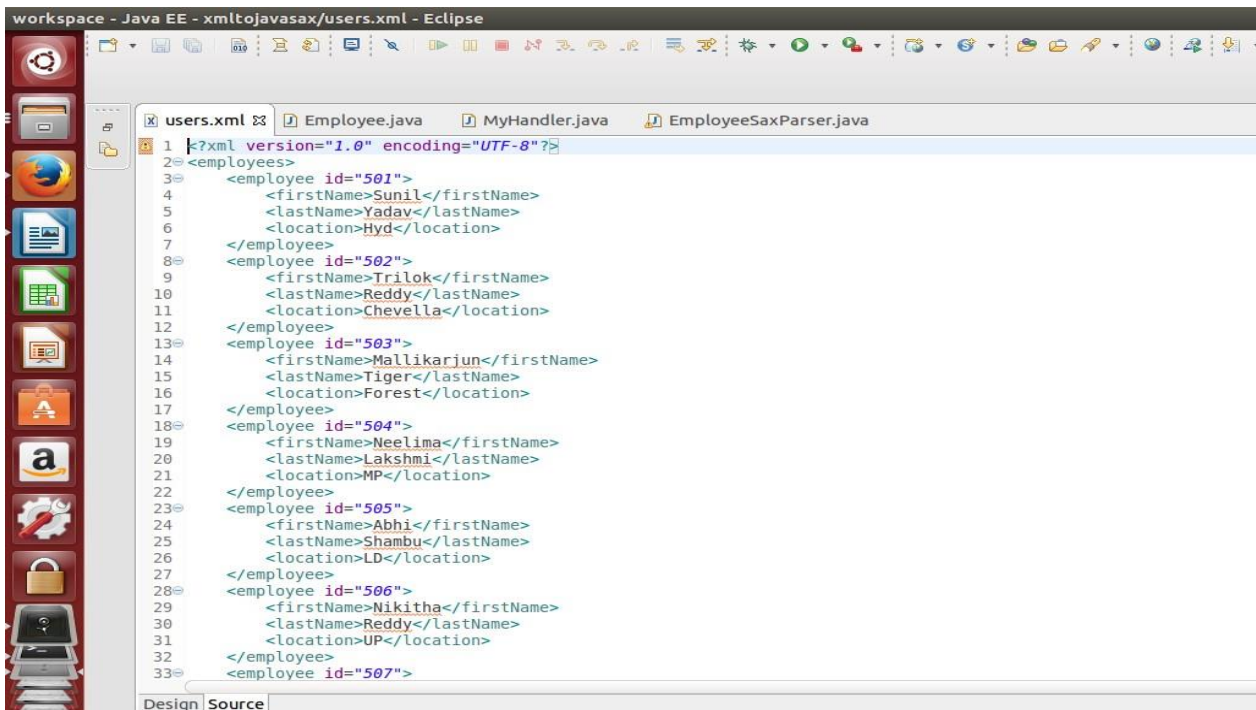
userdetails:
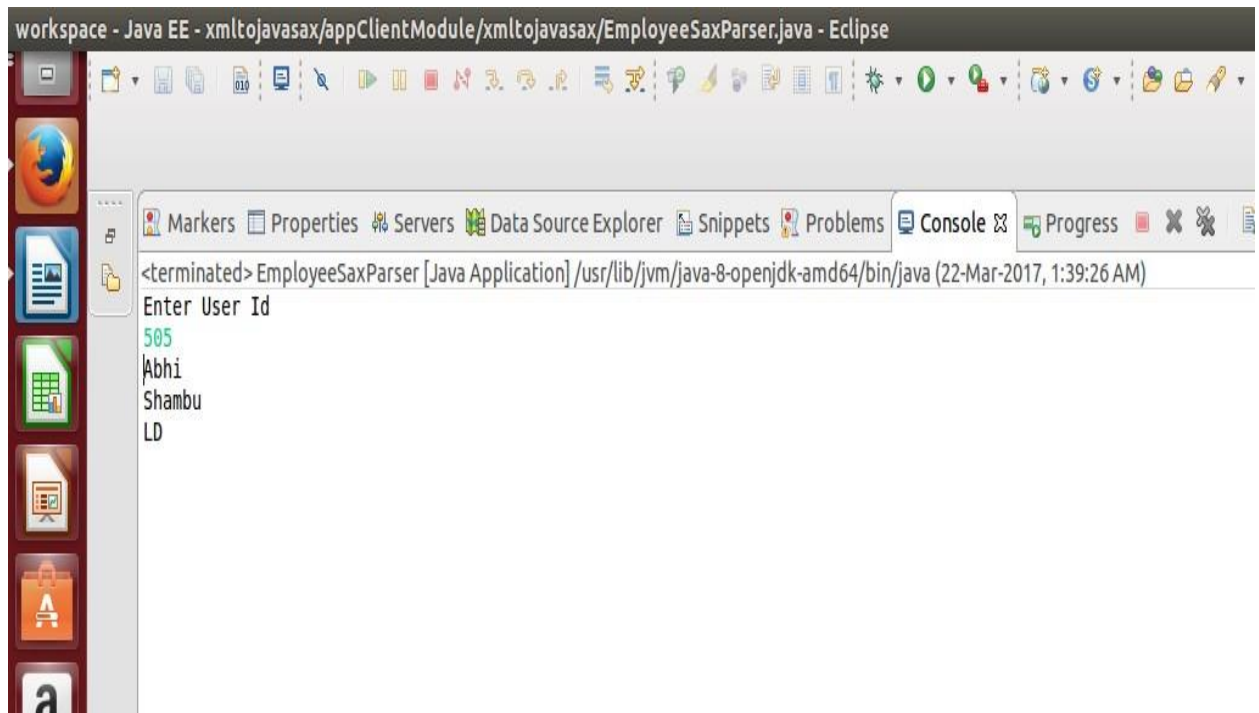
EXPERIMENT – 7

Implement the following web application using (a) PHP, (b) servlets and (c) JSP.

PROBLEM STATEMENT:
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.

SOURCE CODE:

```
<html>

<head>
<title>Login Now</title>
<script language="javascript">

function validate()
{
if(document.login.uname.value=="")
{
 alert("enter                    username");
document.login.uname.focus();  return
false;
}
if(document.login.pwd.value=="")
{
 alert("enter                password");
document.login.pwd.focus();  return
false;
}
else{
       return true;
       }
}
</script>
</head>

<body>
<h3>Login</h3>
<form name="login" method="POST" action="" onsubmit="validate()">
<table>
       <tr>    <td>username</td>
              <td><input type="text" name="uname"></td>
```

```
        </tr>
        <tr>    <td>Password:</td>
                <td><input type="password" name="pwd"></td>
        </tr>

        <tr>    <td></td>
                <td><input type="submit" name="login" value="Login"></td>
         </tr> </table> </form>

<?php  mysql_connect("localhost","kgruser","acd");
        mysql_select_db("kgrdb");
        if(isset($_POST['login']))
        {
                $user=($_POST['uname']);
                $pass=($_POST['pwd']);
                $res=mysql_query("select *from users where userid='$user' and pwd='$pass'");

                if(mysql_num_rows($res))
                {
                        echo "<script> location.href='loginsuccess.php';</script>";
                }
                else
                {
                        echo "Wrong Credentials";
                }
        } ?>
        </body>
</html>
```

loginsuccess.php

```
<?php echo "Login successfully";    ?>
```

OUTPUT:

Mozilla Firefox

http://local...success.php ×   PH

localhost/wt/loginsuccess.p

Login successfully

Login Now - Mozilla Firefox

Login Now   ×   PHP Select Data Fro...

localhost/wt/loginphp.php

Login

username [   ]

Password: [   ]

[Login]

Wrong Credentials

EXPERIMENT – 8

PROBLEM STATEMENT: Modify above program to use an xml file instead of database.

PROGRAM:

Step1: XML File creation

userlist.xml

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

<userlist>

<user>

<username>mahesh</username>

<password>mahi</password>

</user>

<user>

<username>sunder</username>

<password>sun</password>

</user>

<user>

<username>abhijith</username>

<password>abhi</password>

</user>

</userlist>
```

Source Code:
xmllogin.php

```html
<html>
<head>
```

```html
<title>Login Now</title>
<script language="javascript">
function validate()
{
        if(document.login.uname.value=="")
        {
                alert("enter username");
                document.login.uname.focus();
                return false;
        }
        if(document.login.pwd.value=="")
        {
 alert("enter                  password");
document.login.pwd.focus();   return false;
        }
         else     {
return true;
                }
        }
        </script>
        </head>
        <body>

        <h3>Login</h3>

        <?php
                if(isset($_POST['login']))
                {
                        $user=($_POST['uname']);
                        $pass=($_POST['pwd']);
                $userdata = simplexml_load_file('userlist.xml') or die("Error: Cannot create object");
                 $found = 0;
                 foreach ($userdata as $key => $value) {
                 if($value->username == $user && $value->password == $pass)
                 {
                         $found = 1;
         break;
                }
        }
        if($found == 0)
        {
                echo 'Invalid Username And Password Please Try Again';
        }
        else
        {
                echo "<script> location.href='loginsuccess.php';</script>";
        }
        } ?>
```
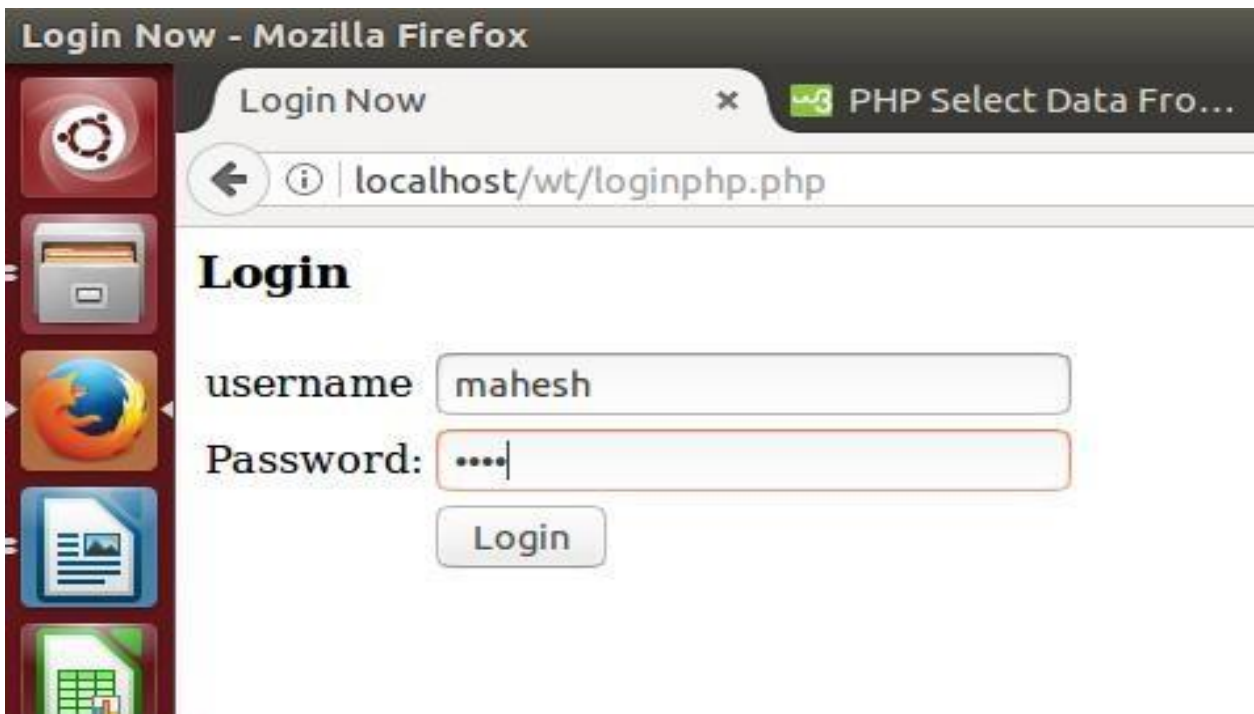
```html
<form name="login" method="POST" action="" onsubmit="validate()">
<table>

        <tr>    <td>username</td>
                <td><input type="text" name="uname"></td>
         </tr>
         <tr>
                 <td>Password:</td>
                <td><input type="password" name="pwd"></td>
         </tr>
         <tr>    <td></td>
                <td><input type="submit" name="login" value="Login"></td>
         </tr>
         </table>
 </form>
 </body>
 </html>
```

loginsuccess.php

```php
<?php  echo "Login successfully";    ?>
```

OUTPUT:

Login Now | × | PHP Select Data Fro...

← ⓘ 🔑 localhost/wt/loginphp.php

Login

username   [   ]

Password: [   ]

[Login]

Wrong Credentials

http://local...success.php × | PH

← ⓘ 🔑 localhost/wt/loginsuccess.p

Login successfully

<center>**EXPERIMENT – 9**</center>

PROBLEM STATEMENT: Modify the above program to use AJAX to show the result on the same page below submit button.

SOURCE CODE:

ajaxlogin.php

```
<html>

<head>

<title>Login Now</title>

<script language="javascript">

function validate()

{

var user=document.login.uname.value;

var pwd=document.login.pwd.value;

var obj;

if(window.XMLHttpRequest)

{
        obj=new XMLHttpRequest();
}

else
{
        obj=new ActiveXObject('Microsoft.XMLHTTP');
}

obj.open("POST","check.php?u="+user+"&p="+pwd,true);

obj.send();

obj.onreadystatechange=function()
{
        if(obj.readyState==4 && obj.status==200)
```

```
{
    document.getElementById("success").innerHTML=obj.responseText;
}
}
}
</script>
</head>
<body>


<h3>Login</h3>
<form name="login" method="POST" action="check.php" onclick="validate()">
<table>
        <tr>    <td>username</td>
                <td><input type="text" name="uname"></td>
        </tr>
        <tr>    <td>Password:</td>
                <td><input type="password" name="pwd"></td>
        </tr>
        <tr>    <td></td>
                <td><input type="button" value="submit"></td>
        </tr>
</table>
</form>
<div id="success"></div>
</body>
</html>
```
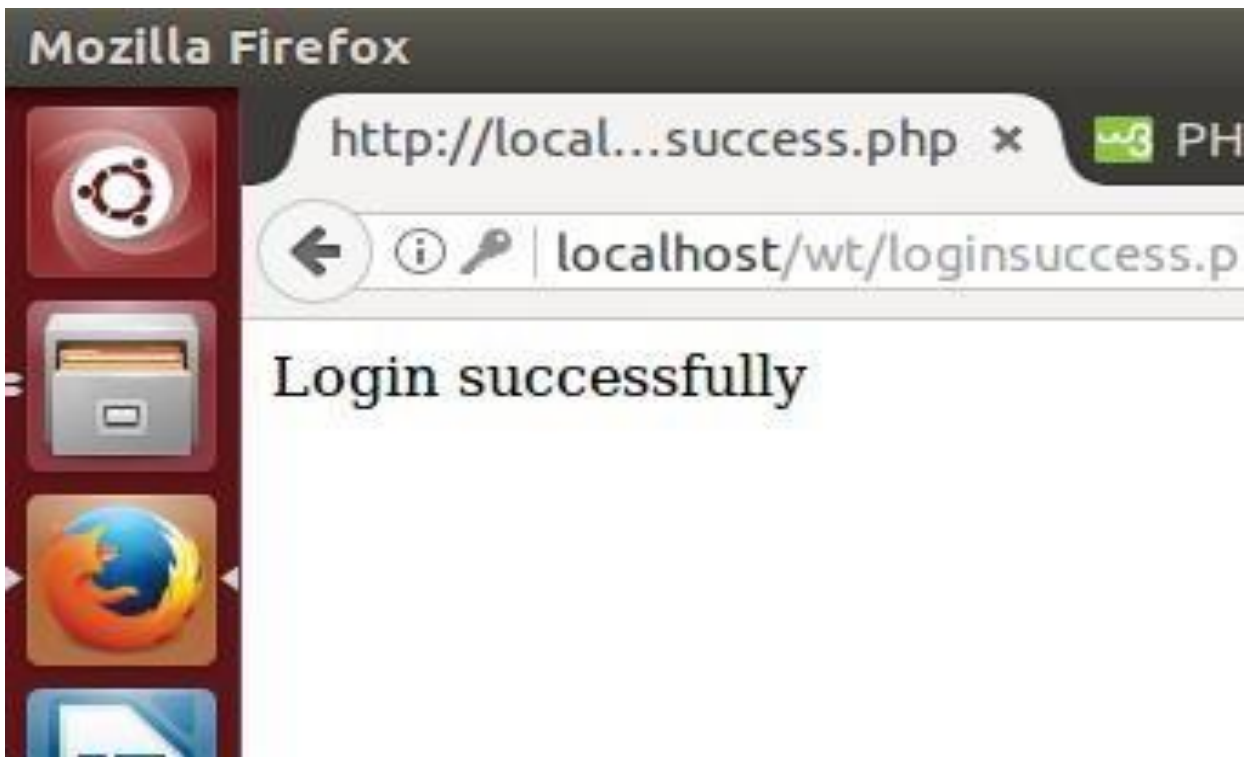
check.php

```php
<?php
        $user=$_REQUEST["u"];
$pass=$_REQUEST["p"];
        mysql_connect("localhost","kgruser","acd");
        mysql_select_db("kgrdb");
         $res=mysql_query(" select * from users where userid='$user' and pwd='$pass' ");
if(mysql_num_rows($res))
        {        echo "you have sucessfully logged in";                }
else
        {        echo "wrong credentials";               }
?>
```

OUTPUT:

Login Now   ×   AJAX XMLHttpRequ...

localhost/wt/ajaxlogin.php

Login

username   [   ]

Password: [   ]

[submit]

EXPERIMENT – 10

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

SOURCE CODE:

calc.php

```
<html>

<head>

<title>calculator</title>

<script language="javascript">

function validateForm()

{

first=document.f1.fvalue.value;

second=document.f1.lvalue.value;

if(first=="")

{

        alert("enter value");

        document.f1.fvalue.focus();

        return false;

}

if(isNaN(first))

{

        alert("must enter number");

        document.f1.fvalue.focus();

        return false;

}
```

```
if(document.f1.operator.value=="")

{

        alert("choose operator");

        document.f1.operator.focus();

        return false;

}
if(second=="")

{

        alert("enter value");

        document.f1.lvalue.focus();

        return false;

}

if(isNaN(second))

{

        alert("must enter number");

        document.f1.lvalue.focus();

        return false;

}

return true;

}
</script>

</head>

<body>

<form name="f1" method="post" action="success.php" onsubmit="return validateForm();">

                <table cellpadding="5" cellspacing="5" border="0">
```

```html
<tr>

   <td>Enter First Number</td>

   <td colspan="1"><input name="fvalue" id="fvalue" type="text"/></td>

<tr>

   <td>Select Operator</td>

   <td><select name="operator">

                          <option selected value=""> choose operator</option>

                          <option value="+">+</option>

                          <option value="-">-</option>

                          <option value="*">*</option>

                          <option value="/">/</option>

                          <option value="%">%</option>
                          </select></td>

</tr>

<tr>

   <td>Enter second Number</td>

   <td><input name="lvalue" type="text" id="lvalue"/></td>

</tr>

<tr>

   <td></td>

   <td><input type="submit" name="calculate" value="Calculate" /></td>

</tr>

        </table>

</form>

</body>
```

```
        </html>
```

success.php

```php
<?php

if( isset( $_REQUEST['calculate']))

{

        $operator = $_REQUEST['operator'];

        if($operator == "+")

        {

                $add1 = $_REQUEST['fvalue'];

                $add2 = $_REQUEST['lvalue'];

                $res  = $add1 + $add2;

                $result = 'SUM';

        }

        if($operator == "-")

        {

                $add1 = $_REQUEST['fvalue'];

                $add2 = $_REQUEST['lvalue'];

                $res  = $add1 - $add2;

                $result = 'DIFFERENCE';

        }

        if($operator == "*")

        {

                $add1 = $_REQUEST['fvalue'];

                $add2 = $_REQUEST['lvalue'];
```

```php
        $res  = $add1 * $add2;

        $result = 'PRODUCT';

    }

    if($operator == "/")

    {

        $add1 = $_REQUEST['fvalue'];

        $add2 = $_REQUEST['lvalue'];

        $res= $add1 / $add2;

        $result = 'DIVISION';

    }

    if($operator == "%")

    {

        $add1 = $_REQUEST['fvalue'];

        $add2 = $_REQUEST['lvalue'];

        $res= $add1 % $add2;

        $result = 'REMAINDER';

    }

}

?>

<?php echo "The <strong>".$result."</strong> Of <strong>".$add1."</strong> And
<strong>".$add2."</strong> Is <strong>". $res."</strong>"; ?>

<br/><br/><a href="calc.php">click Here</a> To Go Back To Calculator
```
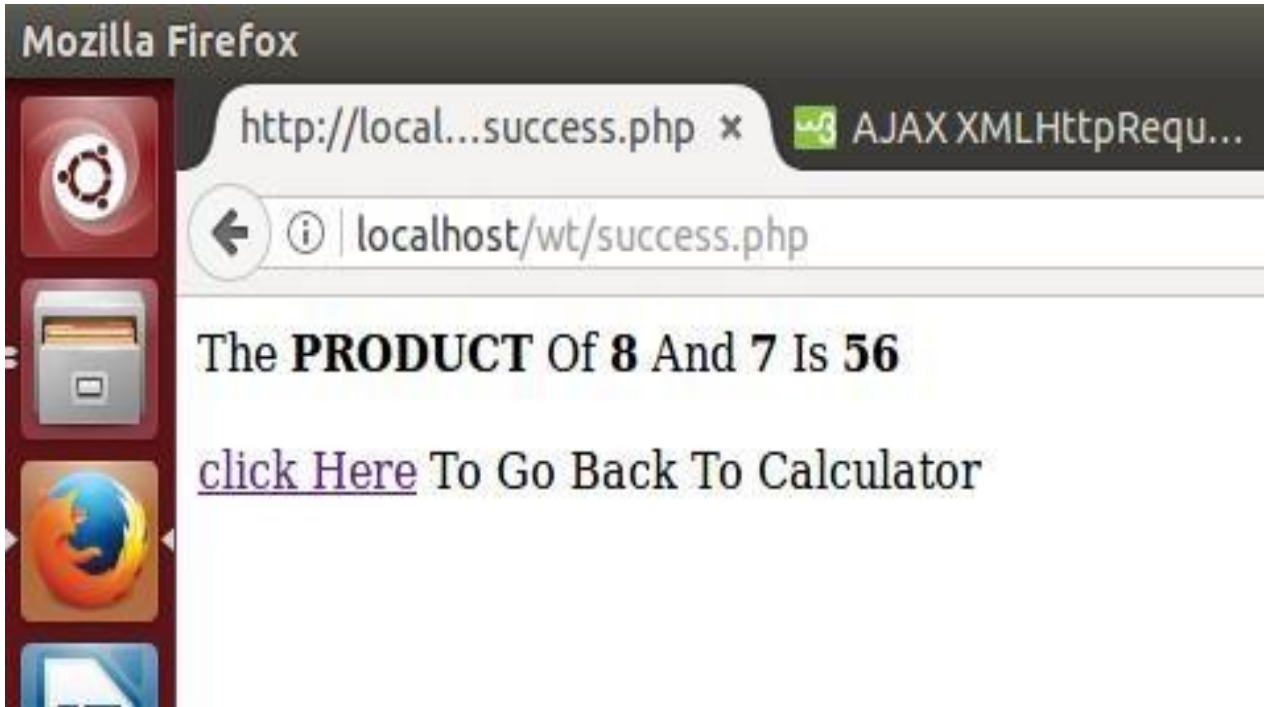
OUTPUT:

The **PRODUCT** Of **8** And **7** Is **56**

click Here To Go Back To Calculator

Enter First Number   8

Select Operator   *

Enter second Number   7

Calculate

<center>**EXPERIMENT – 11**</center>

PROBLEM STATEMENT: A calculator web application which stores each query in a database and checks in the database first for the result. If the query exists in DB it returns the value which was computed previously otherwise it computes the result and returns after storing the query and result in DB

PROGRAM: A calculator web application which stores the query and result in DB.

calc.php

```
<html>

<head>

<title>calculator</title>

<script language="javascript">

function validateForm()

{

first=document.f1.fvalue.value;

second=document.f1.lvalue.value;

if(first=="")

{

        alert("enter value");

        document.f1.fvalue.focus();

        return false;

}

if(isNaN(first))

{

        alert("must enter number");

        document.f1.fvalue.focus();

        return false;
```

```
}
if(document.f1.operator.value=="")
{ alert("choose operator");
        document.f1.operator.focus();
        return false;
}
if(second=="")
{
        alert("enter value");
        document.f1.lvalue.focus();
        return false;
}
if(isNaN(second))
{
        alert("must enter number");
        document.f1.lvalue.focus();
        return false;
}
return true;
}
</script>
</head>
<body>
<form name="f1" method="post" action="success.php" onsubmit="return validateForm();">
                  <table cellpadding="5" cellspacing="5" border="0">
```

```html
<tr>

   <td>Enter First Number</td>

   <td colspan="1"><input name="fvalue" id="fvalue" type="text"/></td>

<tr>

   <td>Select Operator</td>

   <td><select name="operator">

                         <option selected value=""> choose operator</option>

                         <option value="+">+</option>

                         <option value="-">-</option>

                         <option value="*">*</option>

                         <option value="/">/</option>
                         <option value="%">%</option>

                         </select></td>

</tr>

<tr>

   <td>Enter second Number</td>

   <td><input name="lvalue" type="text" id="lvalue"/></td>

</tr>

<tr>

   <td></td>

   <td><input type="submit" name="calculate" value="Calculate" /></td>

</tr>

        </table>

</form>

</body>
```

</html>

Success.php

```php
<?php

if( isset( $_REQUEST['calculate']))

{

        $operator = $_REQUEST['operator'];

        if($operator == "+")

        {

                $add1 = $_REQUEST['fvalue'];

                $add2 = $_REQUEST['lvalue'];

                $res  = $add1 + $add2;

                $result = 'SUM';

        }

        if($operator == "-")

        {

                $add1 = $_REQUEST['fvalue'];

                $add2 = $_REQUEST['lvalue'];
                $res  = $add1 - $add2;

                $result = 'DIFFERENCE';

        }

        if($operator == "*")

        {

                $add1 = $_REQUEST['fvalue'];

                $add2 = $_REQUEST['lvalue'];

                $res  = $add1 * $add2;
```

```php
        $result = 'PRODUCT';

}

if($operator == "/")

{

        $add1 = $_REQUEST['fvalue'];

        $add2 = $_REQUEST['lvalue'];

        $res= $add1 / $add2;

        $result = 'DIVISION';

}

if($operator == "%")

{

        $add1 = $_REQUEST['fvalue'];

        $add2 = $_REQUEST['lvalue'];

        $res= $add1 % $add2;

        $result = 'REMAINDER';

}


mysql_connect("localhost","kgruser","acd");

mysql_select_db("kgrdb");

$rst=mysql_query("select fval,opr,lval from calculator");?>
<div>
<?php  if (!$rst) {     echo 'Could not run query: ' .

        mysql_error();

          exit;

}
```

```php
$rows=mysql_num_rows($rst);

//echo $rows;

$flag=0;

if($rows==0)

{

        mysql_query("INSERT INTO calculator values($add1,'$operator',$add2,$res)");


            echo    "The    <strong>".$result."</strong>    Of      <strong>".$add1."</strong>
And <strong>".$add2."</strong> Is <strong>".                    $res."</strong>";

}

else while($row=mysql_fetch_array($rst))

{

        if($row[0]===$add1 && $row[1]===$operator && $row[2]===$add2)

        {

  $dresult=mysql_query("select result from calculator where fval=$add1 and opr='$operator' and
lval=$add2");

                $drval=mysql_fetch_row($dresult);

                echo "The <strong>".$result."</strong> Of <strong>".$add1."</strong> And
<strong>".$add2."</strong> Is                                   <strong>".
$drval[0]."</strong>";?><br/><br/><a href="calc.php">click Here</a> To Go Back To Calculator

                <?php exit();

        }

        else

        {

                $flag=1;

        }

}
```

```
        if($flag==1)

        {

                mysql_query("INSERT INTO calculator values($add1,'$operator',$add2,$res)");

                echo    "The    <strong>".$result."</strong>  Of      <strong>".$add1."</strong>    And
                                <strong>".$add2."</strong> Is <strong>".              $res."</strong>";

        }

}?><div>

<br/><br/><a href="calc.php">click Here</a> To Go Back To Calculator
```
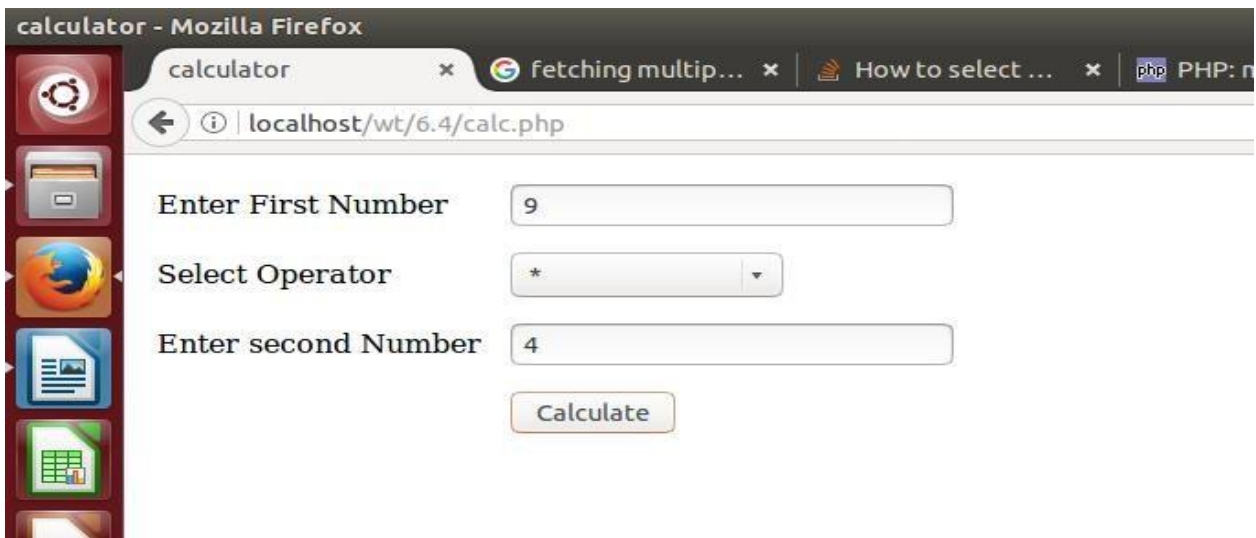
OUTPUT:

The **PRODUCT** Of **9** And **4** Is **36**

click Here To Go Back To Calculator

EXPERIMENT – 12

PROGRAM STATEMENT:

A web application which takes name as input and displays a page with Hello <name>, logout button and start time on right corner and display another page with thank <name> and duration of usage. (hint: Use session to store name and time).

PROGRAM: web application displaying the user given name along with session duration.

SOURCE CODE:

Sessionnt.php

```
<html>
<head>
<title> session time </title>
</head>
<body>
<form action="logout.php" method="POST">
Enter name<input type="text" name="name" value=""/>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>
```

Logout.php

```php
<?php
session_start();

$_SESSION['name']=$_POST['name'];
if (!isset($_SESSION['start_time']))

{
   $str_time = time();
   $_SESSION['start_time'] = $str_time;
}?>
```

```html
<html>
<body>
<div>
<span style="float:right">
<?php

echo date("H:i:s",$_SESSION['start_time']);?></span>
</div>
<?php echo "Hello ".$_POST['name'];?><br>
<form action="logoutsession.php" method="POST">
<input type="submit" name="submit" value="Logout">
</body>
</html>
```
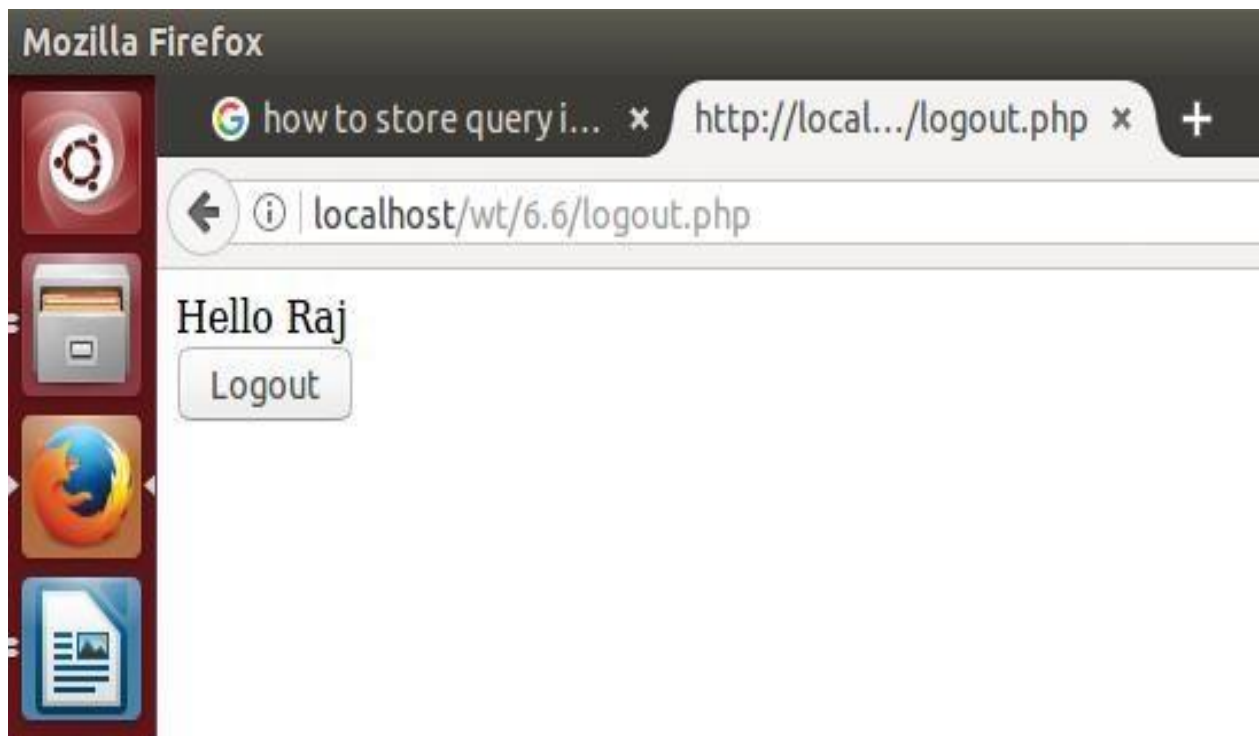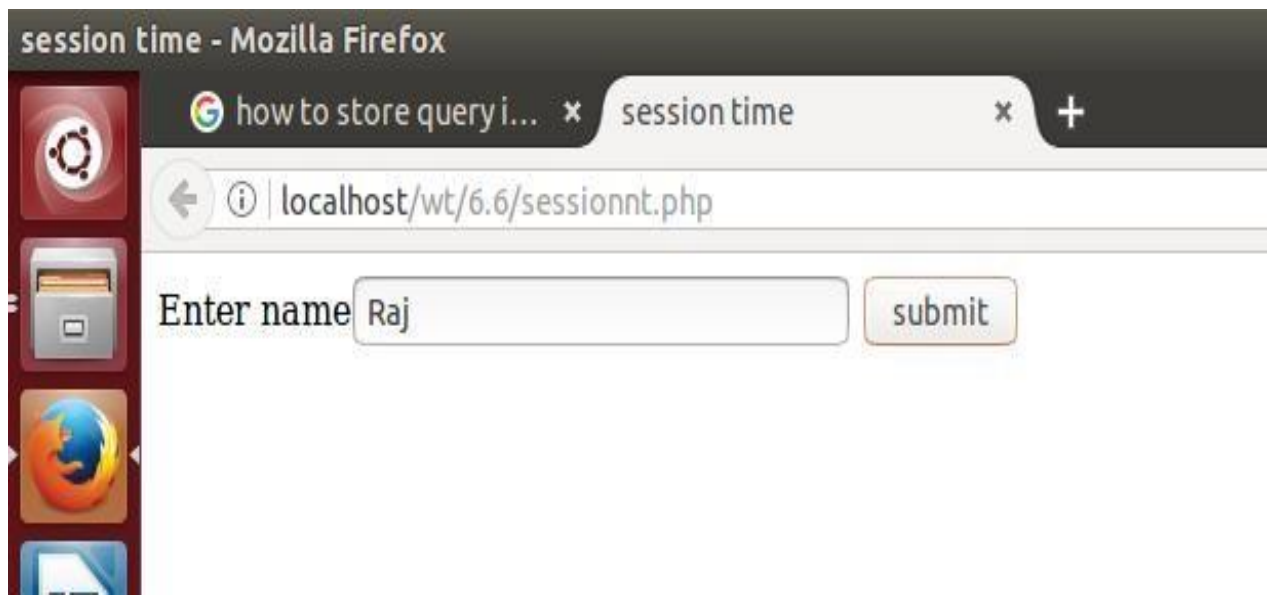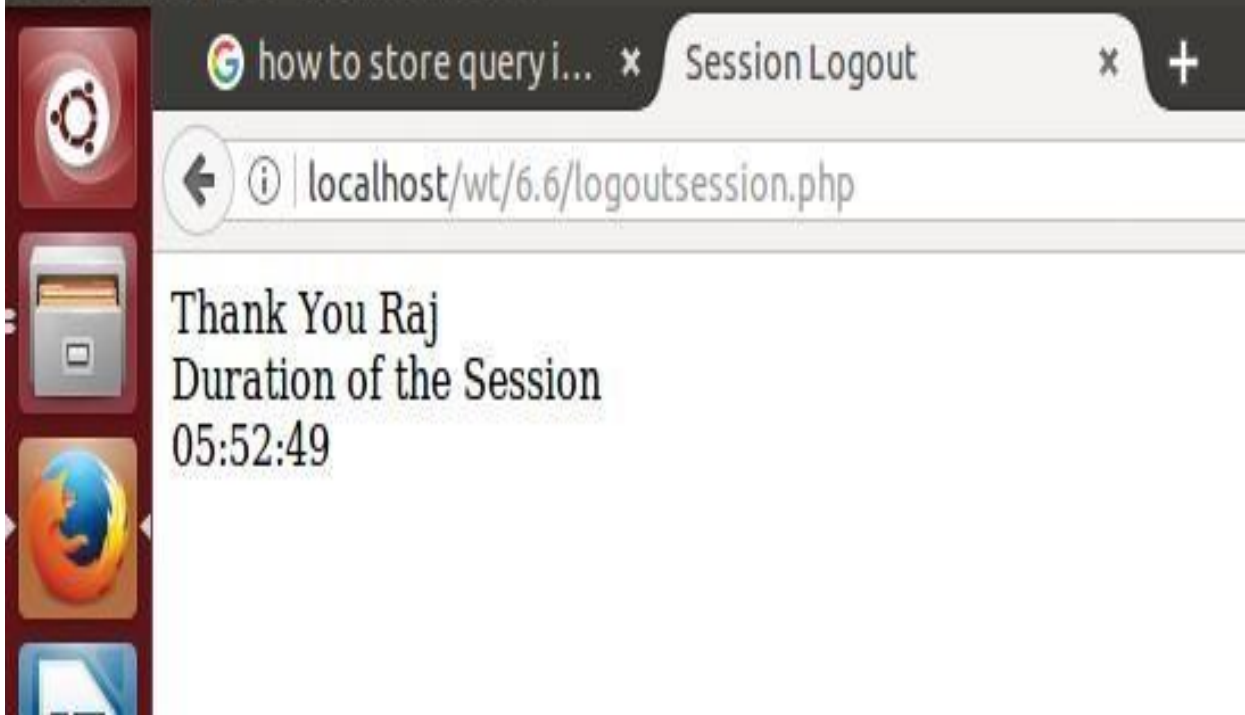
logoutsession.php

```php
<?php
session_start();
$duration=time()-$_SESSION['start_time'];?>
<html>
<head> <title> Session Logout </title></head>
<body>
<?php echo "Thank You ".$_SESSION['name']."<br>". "Duration of the Session
"."<br>".date("H:i:s",$duration);?>
</body>
</html>
```

OUTPUT:

EXPERIMENT – 13

PROBLEM STATEMENT:

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.

AIM: To display appropriate page based on user age.

PROGRAM:

userform.php

<html>

<head>

<title> Authorization of user</title>

<body>

<form action="authenticate.php" method="POST">

Name <input type="text" name="name" value=""/>

Age <input type="text" name="age" value=""/>

<input type="submit" value="submit"/>

</form>

</body>

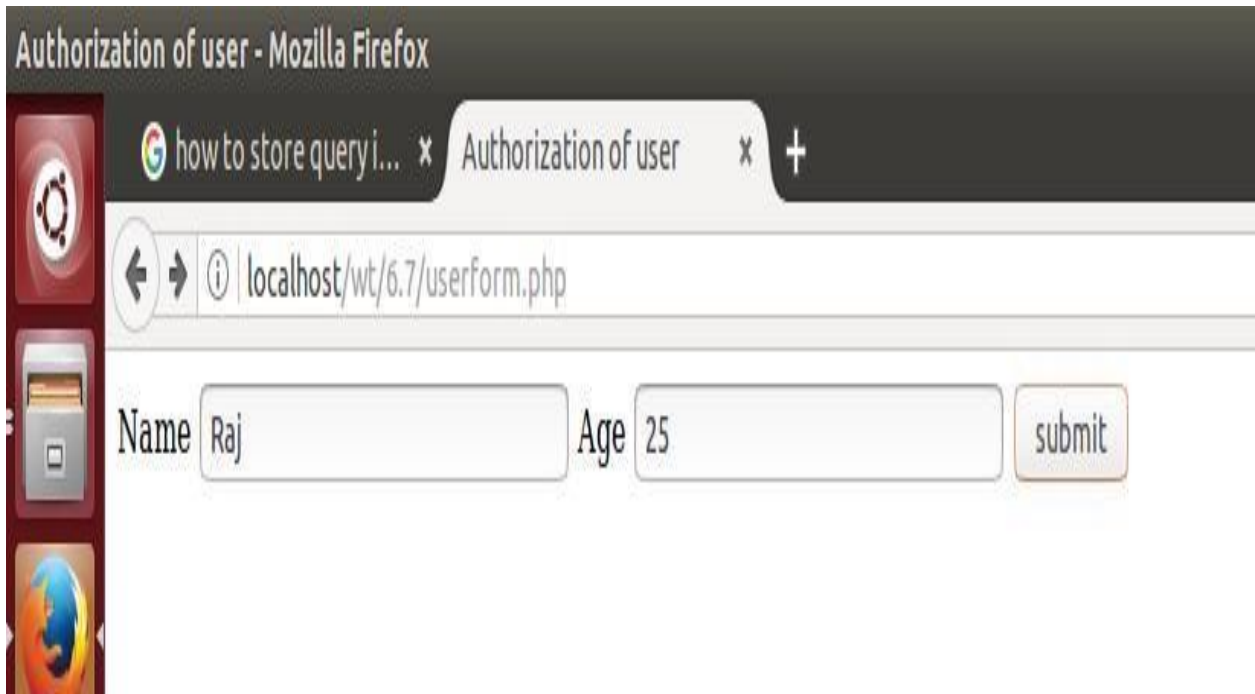</html>
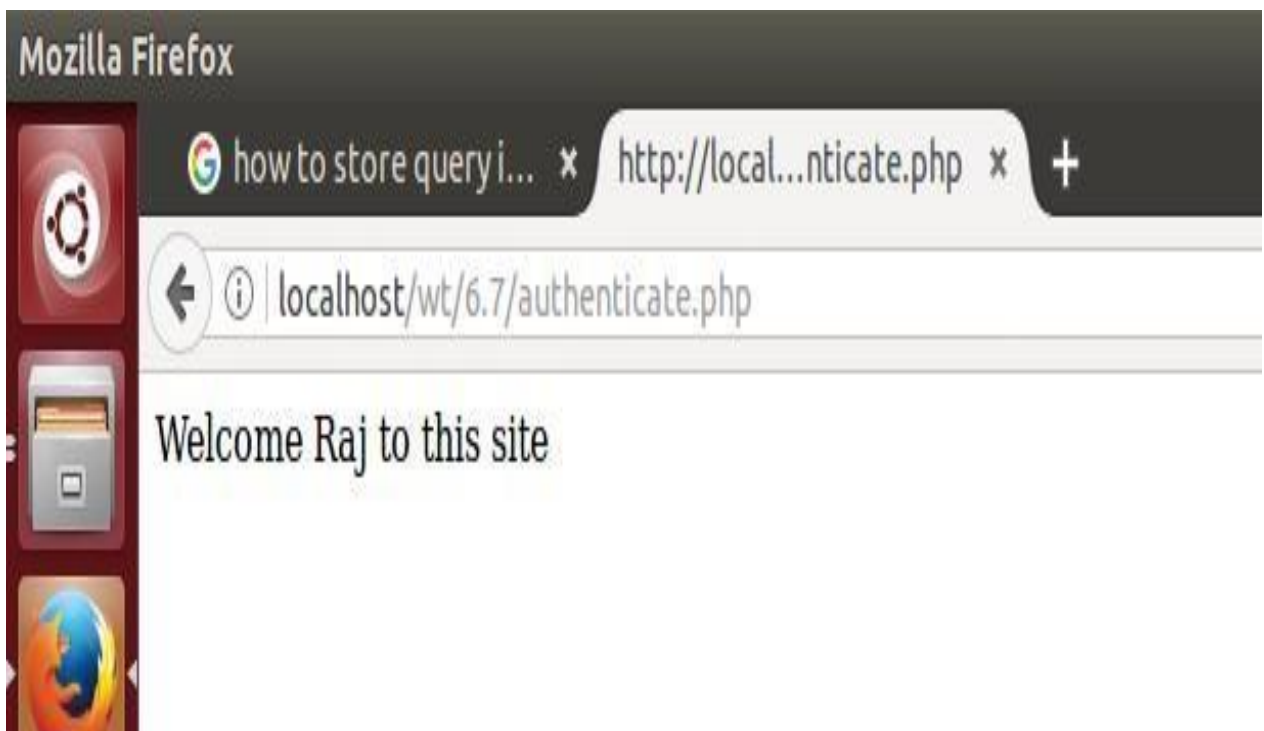
authenitcate.php

<?php

if($_POST['age']<18)

{

echo "Hello ".$_POST['name']." You are not authorized to visit this site";

}

```
else {
echo "Welcome ".$_POST['name']." to this site";
}
 ?>
```

OUTPUT:
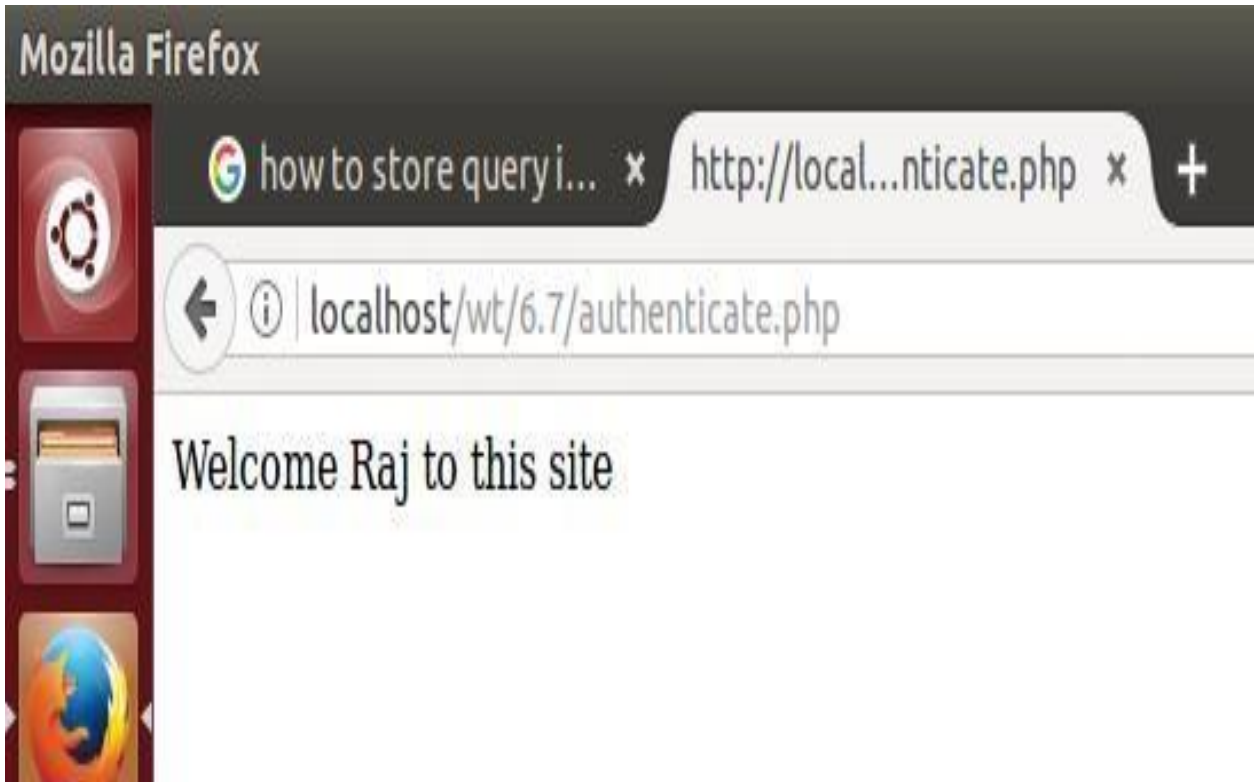
PROBLEM STATEMENT: A web Application for Implementation:

Take user name and password and check against the database if username and password matches, display a welcome page with user's full name if name matches and password doesn't match then display "password mismatch" page. If name not found in the data base take full name from user and store username, password and full name in the data base using registration page. (Use sessions to store username and password.)

AIM: Developing a web application to check login credentials of user and displaying welcome page upon success other register the user with full name.

PROGRAM:

loginphp.php

```
<html>
      <head>
            <title>Login Now</title>
            <script language="javascript">

            function validate()
            {
                    if(document.login.uname.value=="")
                    {
                            alert("enter username");
                            document.login.uname.focus();
                            return false;
                    }

                    if(document.login.pwd.value=="")
                    {

                            alert("enter password");
                            document.login.pwd.focus();
                            return false;
                    }

                    else{
                            return true;
                    }

            }
```

```html
            </script>
</head>

<body>
<h3>Login</h3>

        <form name="login" method="POST" action="" onsubmit="validate()">
         <table>
                <tr>

                        <td>username</td>
                        <td><input type="text" name="uname"></td>
                </tr>
                <tr>
                        <td>Password:</td>
                        <td><input type="password" name="pwd"></td>

                </tr>

                <tr>
                         <td></td>
                        <td><input type="submit" name="login" value="Login"></td>

                </tr>
                </table>
        </form>

<?php

        session_start();
        mysql_connect("localhost","kgruser","acd");
        mysql_select_db("kgrdb");


        if(isset($_POST['login']))
        {

                $user=($_POST['uname']);
                $pass=($_POST['pwd']);
               $res=mysql_query("select userid,pwd from users where userid='$user'");
                $row=mysql_fetch_row($res);

                if($row[0]==$user)
                {

                        if($row[1]==$pass)
                        {
```

```php
                                $res=mysql_query("select name from users where userid='$user' and
pwd='$pass'");

                                        $fname=mysql_result($res,0);
            $_SESSION['fname']=$fname;
                                        echo "<script> location.href='welcome.php';</script>";

                                }

                                else
                                {
                                echo "<script> location.href='pwdmismatch.php';</script>";

                                }

                        }

                        else
                        {

                                $_SESSION['user']=$user;
                                $_SESSION['pwd']=$pass;

                                echo "<script> location.href='reguser.php';</script>";

                        }

                }?>

        </body>
</html>
```

welcome.php

```php
<?php

session_start();

echo "Welcome  ".$_SESSION['fname'];

?>
```

passwordmismatch.php

```php
<?php

session_start();
```

echo "Password is incorrect";

?>

reguser.php

<html>

<head>

<title> Registration form </title>

<body>

<form name="reg" action="" method="POST">

<h3> User Registration </h3>

Enter Full Name<input type="text" name="fname" value=""/>

<input type="submit" name="submit" value="submit"/>

</form>

```php
<?php

        session_start();

        $uid=$_SESSION['user'];

        $pwd=$_SESSION['pwd'];

        mysql_connect("localhost","kgruser","acd");

        mysql_select_db("kgrdb");

        if(isset($_POST['fname'])){

        $fname=$_POST['fname'];

        $res=mysql_query("INSERT INTO users values('$uid','$pwd','$fname')");

        if($res===TRUE)
        {
                echo "Registration Completed Successfully";
        }
        }?>
```
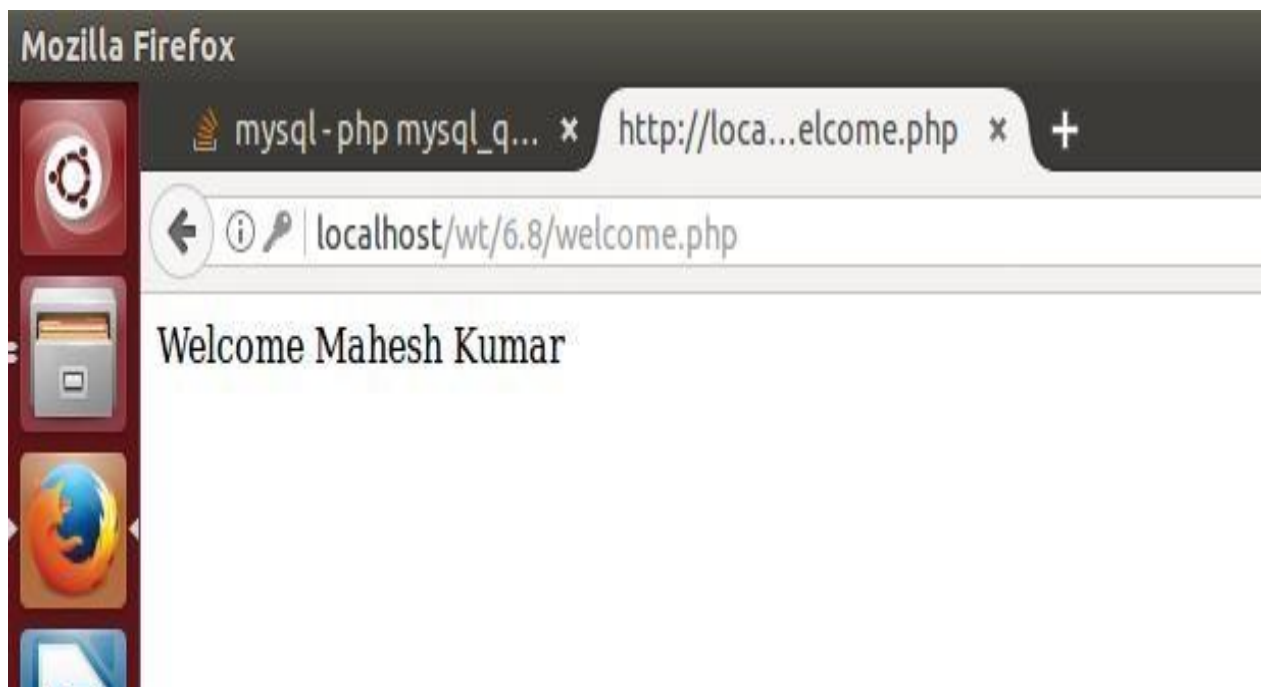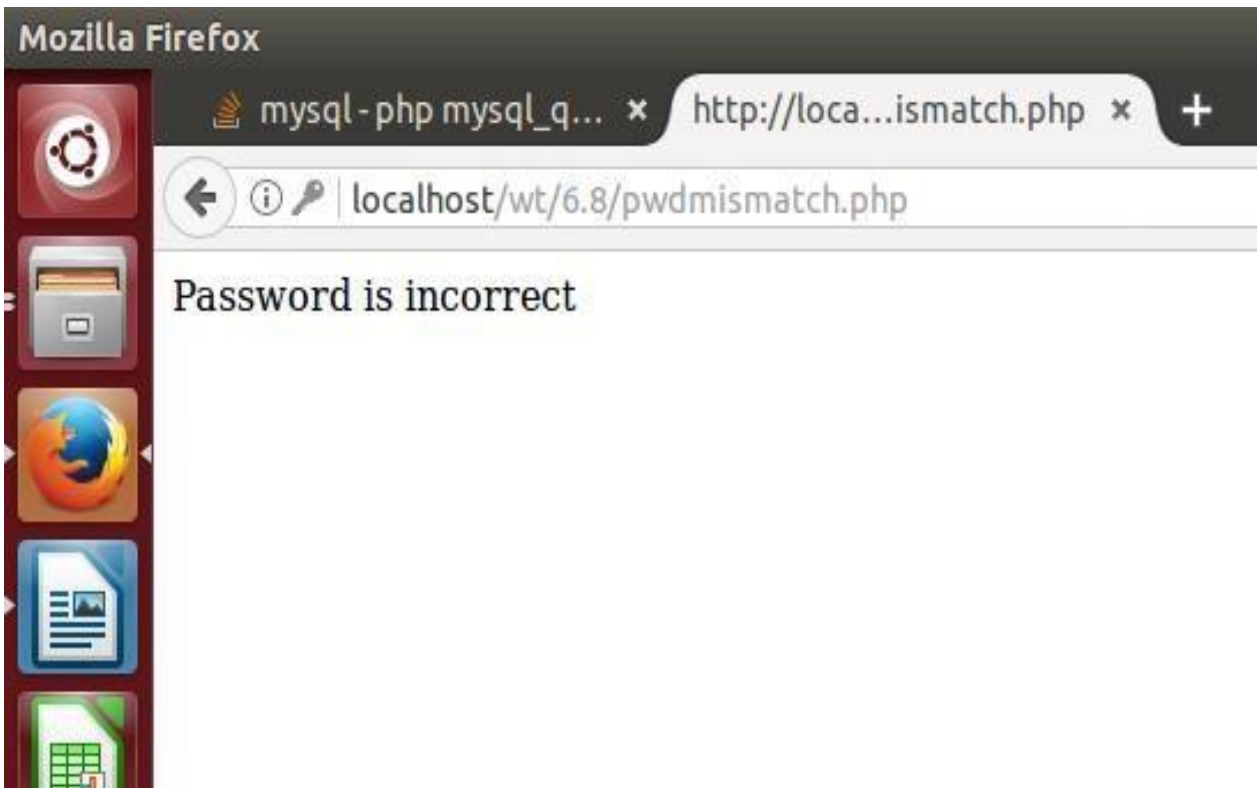
```
</body>
</html>
```

OUTPUT:

Login Now - Mozilla Firefox

mysql - php mysql_q... ×   Login Now   ×   +

localhost/wt/6.8/loginphp.php

Login

username   mahesh

Password: ••••

Login

Mozilla Firefox

mysql - php mysql_q... ×   http://loca...ismatch.php   ×   +

localhost/wt/6.8/pwdmismatch.php

Password is incorrect

<p style="text-align:center">EXPERIMENT – 15</p>

PROBLEM STATEMENT: **A web application that lists all cookies stored in the browser on clicking "List Cookies" button.**

AIM: A web application to list all cookies stored in the browser.

PROGRAM:

Listcookies.php

```
<html>

<head>

<title> Choose List Cookies </title>

</head>

<body>

<form action="displaycookies.php" method="POST"/>

<input type="submit" name="submit" value="List Cookies"/>

</form>

<?php

setcookie("name","Sunder");

setCookie("age","18");

setCookie("address","Hyderabad");

?>

</body>

</html>
```
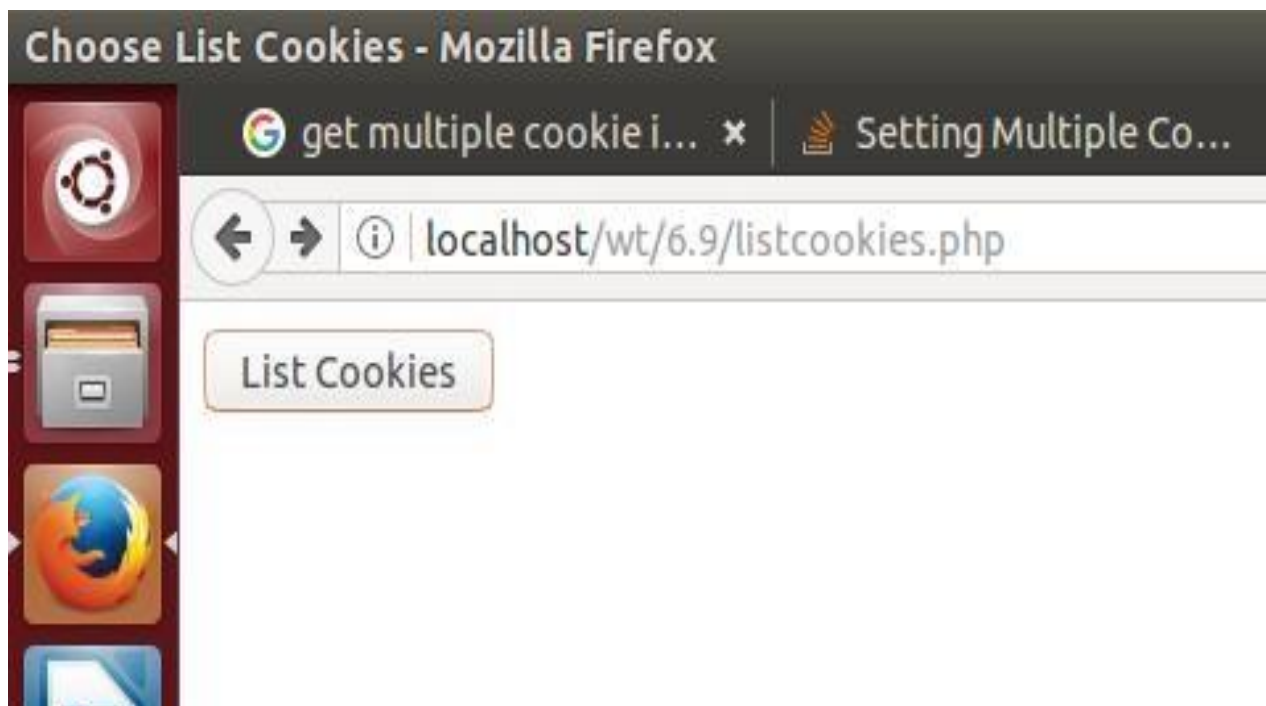
displaycookies.php

```
<?php
```

```php
$cookie=$_COOKIE;

foreach ($cookie as $key=>$val)

echo "<br>$key : $val";

?>
```

OUTPUT:

get multiple cookie i... ✕ | Setting Multiple Co... ✕ | Ph

localhost/wt/6.9/displaycookies.php

name : Sunder
age : 18
address : Hyderabad
PHPSESSID : rcn5e0s2qnhu0gbdd98ttgtq00