**ADVANCED JAVA PROGRAMMING**

**PROGRAM: 1**

**AIM: Simple Servlet program to display message.**

**Sample\_page.html**

<!DOCTYPE html>

<!--

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To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

<head>

<title>sample program</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width">

</head>

<body>

<br><a href="sample\_action">click here</a>

</body>

</html>

**Sample\_action.jsp**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author root

\*/

public class sample\_action extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\* TODO output your page here. You may use following sample code. \*/

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet sample\_action</title>");

out.println("</head>");

out.println("<body>");

out.println("<h1>welcome to first servlet page</h1>");

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

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

} finally {

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

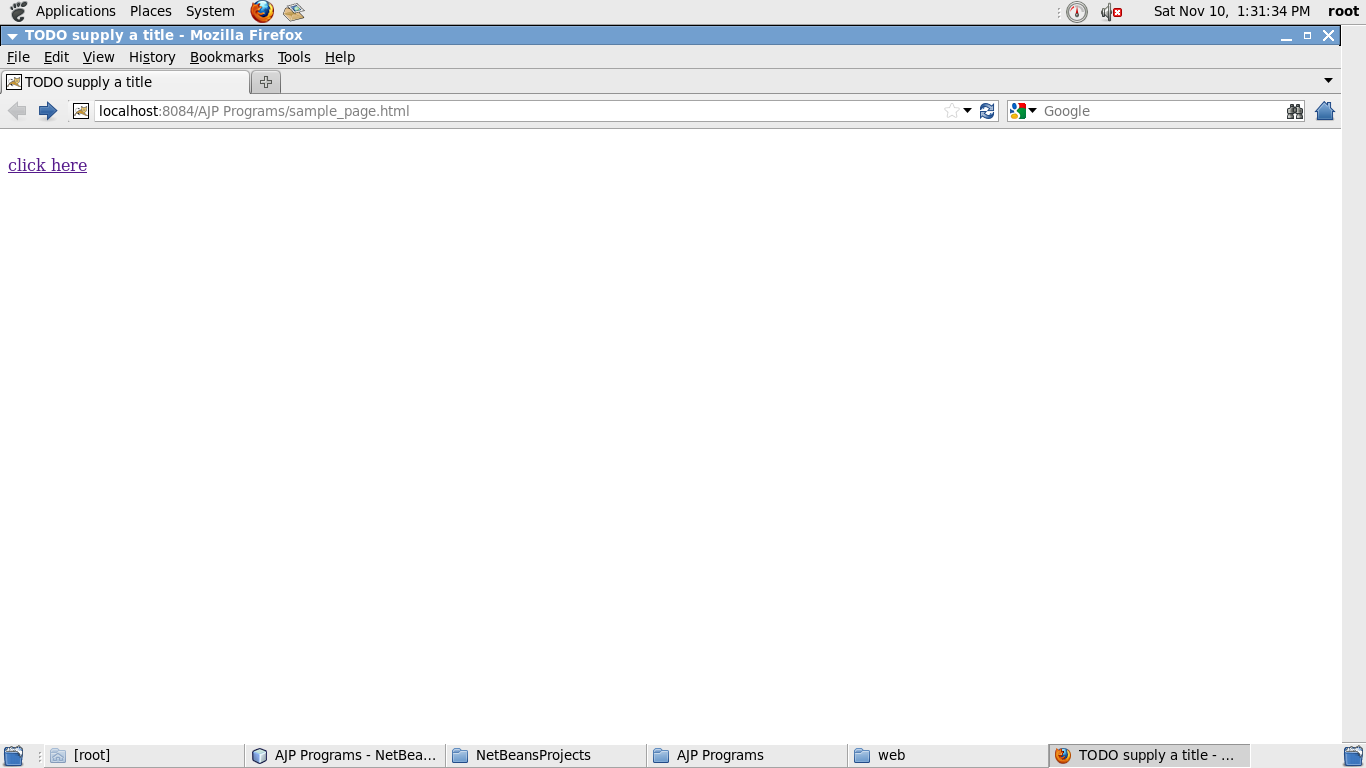
public String getServletInfo() {

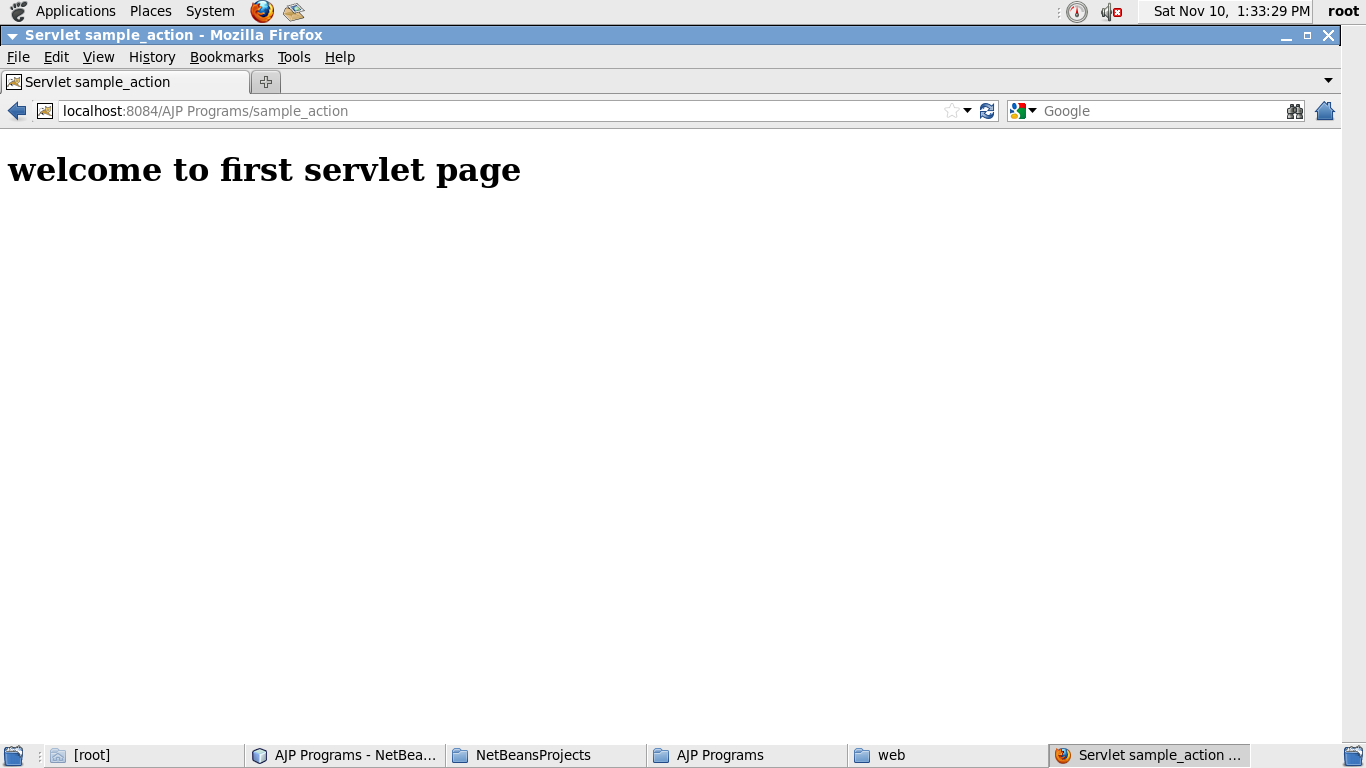
return "Short description";

}// </editor-fold>

}

**OUTPUT:**

****

****

**PROGRAM: 2**

**AIM: Servlet program to implement database connection.**

**Index.jsp**

<%--

Document : index

Created on : Jun 1, 2018, 10:21:47 AM

Author : root

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<form method="get" action="DBaction">

<input type="text" name="rollno"></input>

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

</form>

</body>

</html>

**DBaction.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

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\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.ResultSetMetaData;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author root

\*/

public class DBaction extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\* TODO output your page here. You may use following sample code. \*/

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet DBaction</title>");

out.println("</head>");

out.println("<body>");

out.println("<h1>result is </h1>");

Class.forName("org.postgresql.Driver");

String url="jdbc:postgresql:jdbc";

Connection con=DriverManager.getConnection(url,"postgres","");

Statement stm=con.createStatement();

ResultSet rs=stm.executeQuery("select roll\_no,name,result,grade from tab2 where roll\_no="+request.getParameter("rollno")+"");

ResultSetMetaData rd=rs.getMetaData();

out.println("<table border=1>");

while(rs.next())

{

out.println("<tr>");

out.print("<td>");

//out.print(rd.getColumnName(1));

out.print("</td>");

out.print("<td>");

out.print(rs.getString("roll\_no"));

out.print("</td>");

out.print("</tr>");

out.println("<tr>");

out.print("<td>");

//out.print(rd.getColumnName(2));

out.print("</td>");

out.print("<td>");

out.print(rs.getString("name"));

out.print("</td>");

out.print("</tr>");

out.println("<tr>");

out.print("<td>");

// out.print(rd.getColumnName(3));

out.print("</td>");

out.print("<td>");

out.print(rs.getString("result"));

out.print("</td>");

out.print("</tr>");

out.println("<tr>");

out.print("<td>");

// out.print(rd.getColumnName(4));

out.print("</td>");

out.print("<td>");

out.print(rs.getString("grade"));

out.print("</td>");

out.print("</tr>");

}

out.println("</table>");

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

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

} catch (ClassNotFoundException ex) {

//Logger.getLogger(test.class.getName()).log(Level.SEVERE, null, ex);

out.println("class not");

}

catch(SQLException ex){

out.println("sql exception");

}

finally {

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

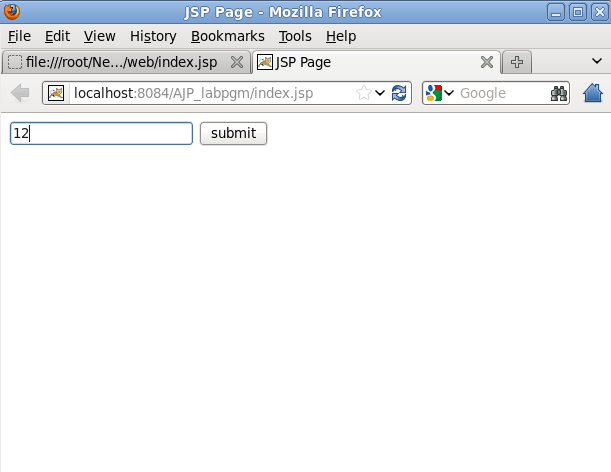
public String getServletInfo() {

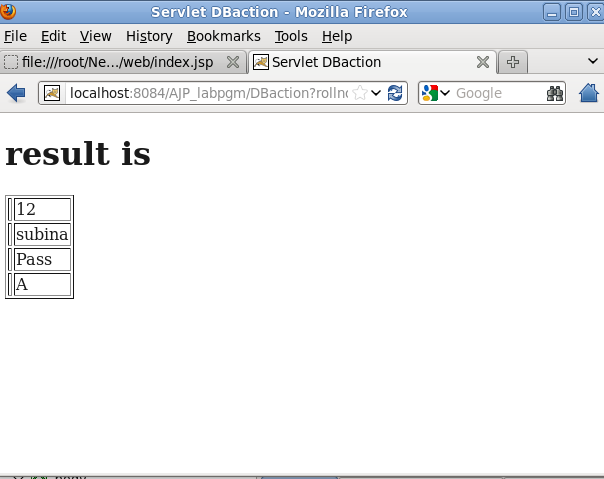
return "Short description";

}// </editor-fold>

}

**OUTPUT:**





**PROGRAM: 3**

**AIM: Demonstrate a simple JSP program.**

**Count\_pg.jsp**

<%--

Document : count

Created on : Jun 1, 2018, 8:18:40 PM

Author : root

--%>

<%@page import="java.util.Date"%>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<h1>

<%! int count=0; %>

<% count++;

out.println("You are accessing the page for "+count+"time");

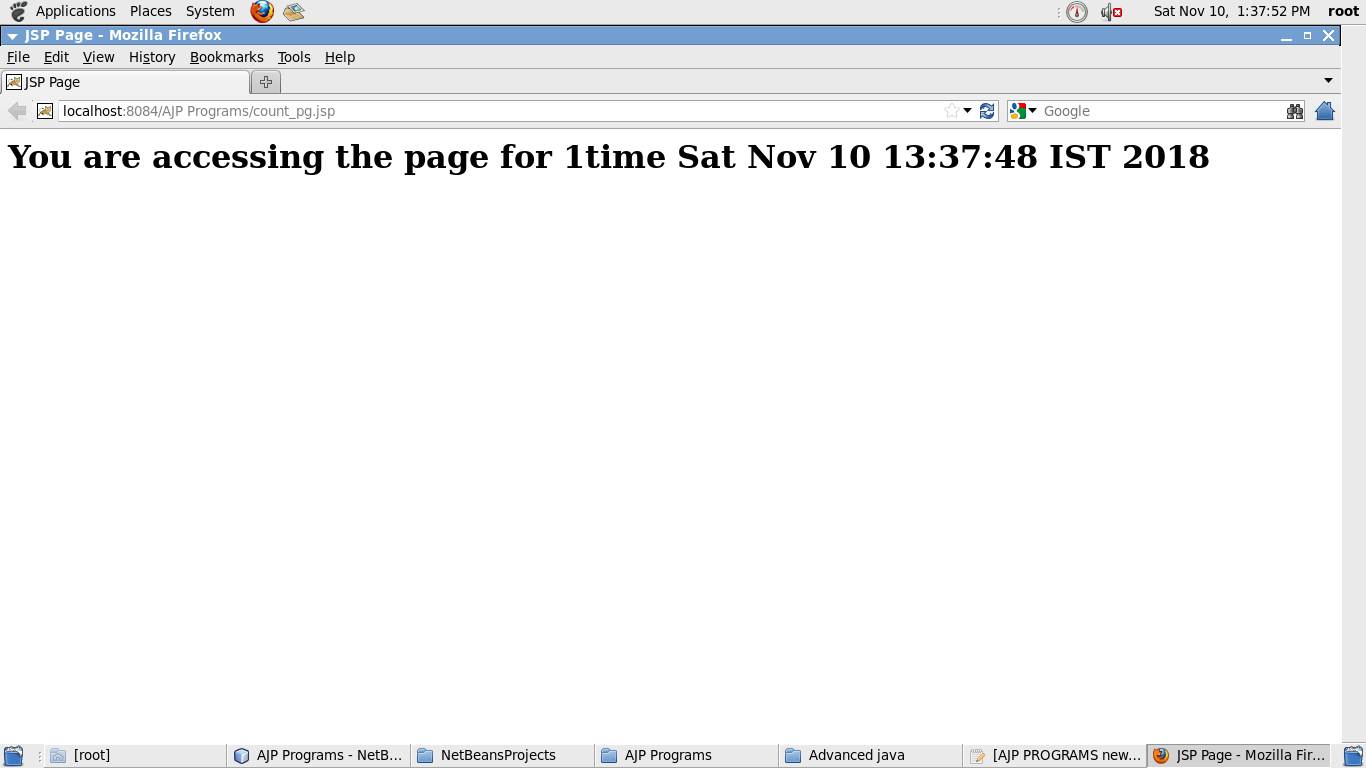
out.println(new Date().toString()); %>

</h1>

</body>

</html>

**OUTPUT:**

****

**PROGRAM: 4**

**AIM: JSP program to perform arithmetic operation**.

**Arithmetic.jsp**

<%--

Document : arithmetic

Created on : Jun 1, 2018, 8:43:00 PM

Author : root

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<center>

<form action="arith\_action.jsp">

<table>

<tr>

<td>Enter First Number</td>

<td><input type="text" name="fno"></td>

</tr>

<tr>

<td>Enter Second Number</td>

<td><input type="text" name="sno"></td>

</tr>

<tr>

<td>Enter Operator</td>

<td><input type="text" name="op"></td>

</tr>

<tr>

<td></td>

<td><input type="submit" name="Result"></td>

</tr>

</table>

</form>

</center>

</body>

</html>

**Arith\_action.jsp**

<%--

Document : arith\_action

Created on : Jun 1, 2018, 8:44:57 PM

Author : root

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<%

int x = Integer.parseInt(request.getParameter("fno"));

int y = Integer.parseInt(request.getParameter("sno"));

String z = request.getParameter("op");

int a = 0;

if(z.equals("+"))

{

a = x+ y;

}

else if(z.equals("-"))

{

a = x - y;

}

else if(z.equals("\*"))

{

a = x \* y;

}

else if(z.equals("/"))

{

a = x / y;

}

%>

<h1 align="center">

<%

out.println("Result : "+a);

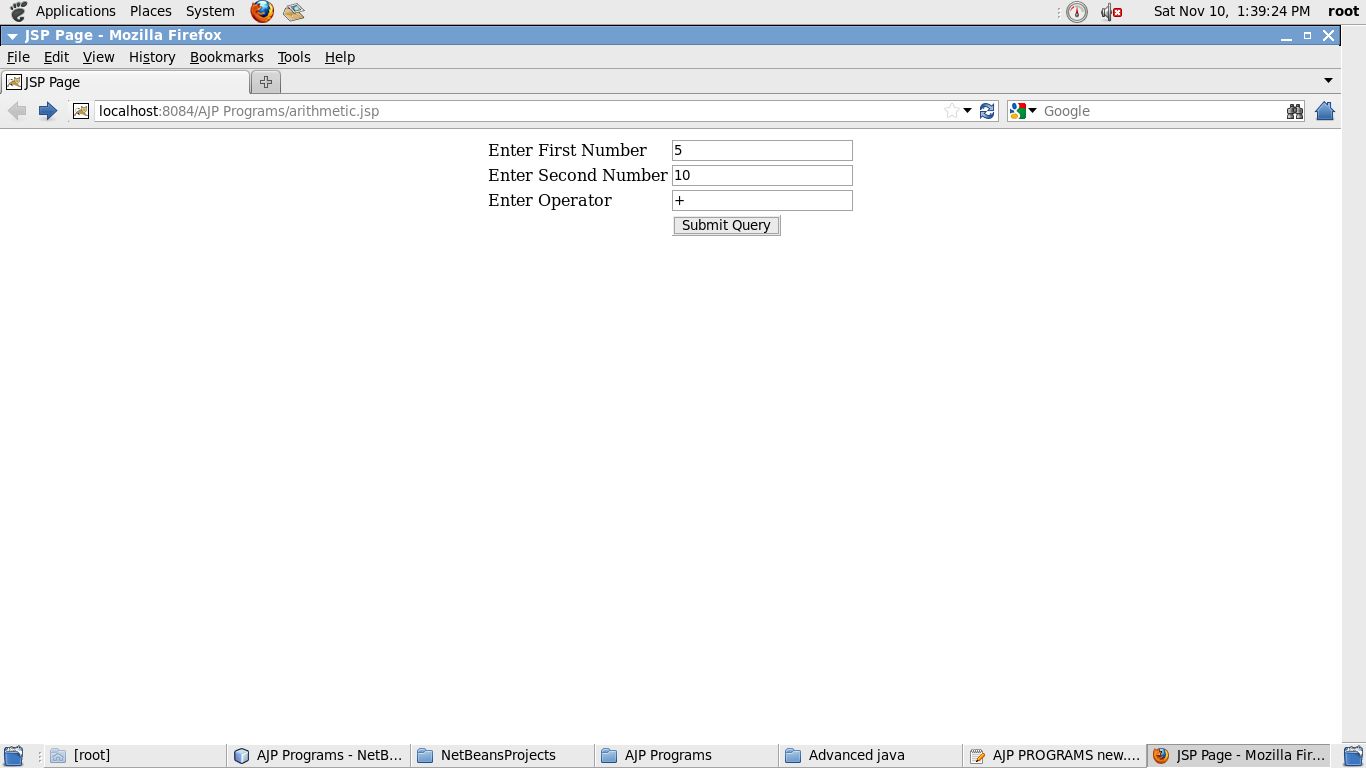
%>

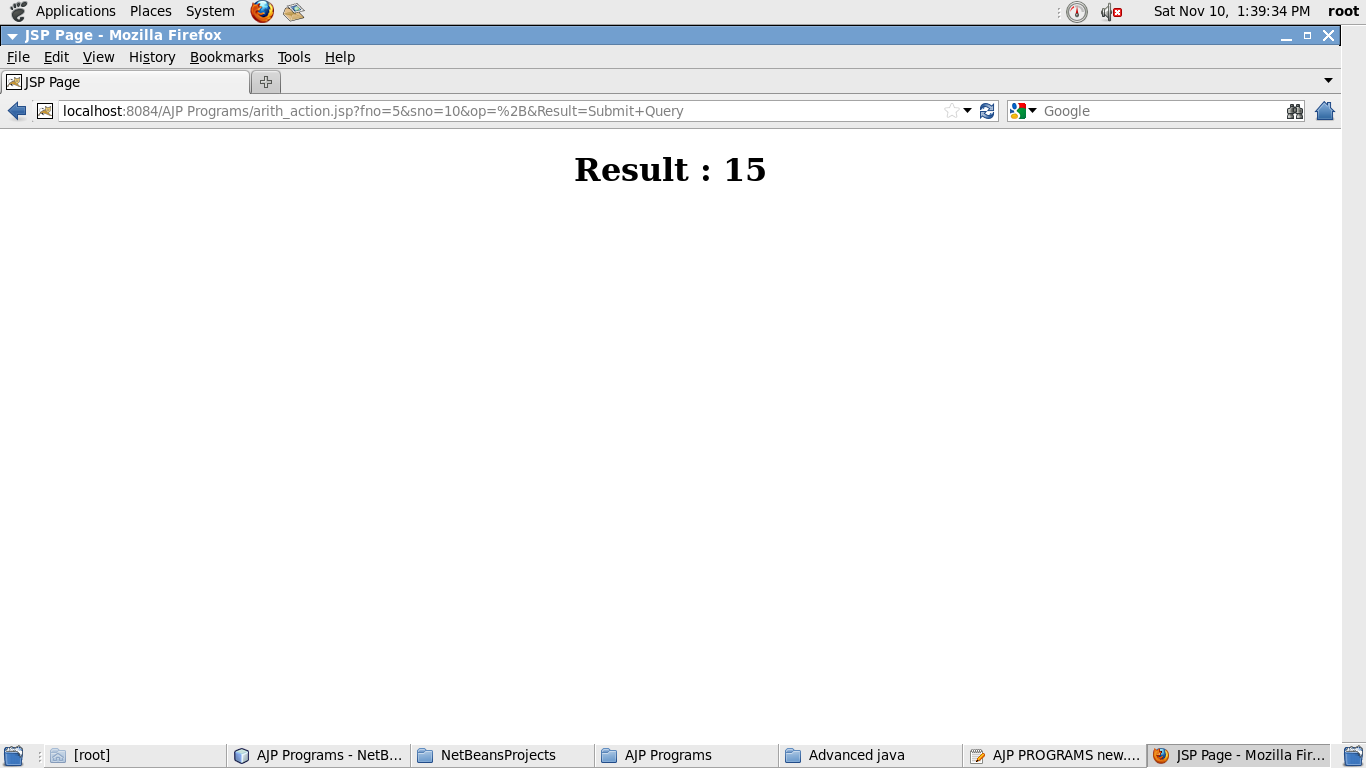
</h1>

</body>

</html>

**OUTPUT:**

****

****

**PROGRAM: 5**

**AIM: A JSP program to check whether a string is palindrome or not.**

**Index.jsp**

<%--

Document : index

Created on : Jun 1, 2018, 6:12:17 PM

Author : root

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<center>

<form action="pallindrome.jsp">

<table>

<tr>

<td>Enter the String</td>

<td><input type="text" name="s"></td>

</tr>

<tr>

<td></td>

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

</tr>

</table>

</form>

</center>

</body>

</html>

**Pallindrome.jsp**

<%--

Document : pallindrome

Created on : Jun 1, 2018, 7:35:34 PM

Author : root

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<%

String rev = "";

String s = request.getParameter("s");

int l = s.length();

for(int i=l-1;i>=0;i--)

{

rev += s.charAt(i);

}

%>

<h1 align="center">

<%

if(s.equals(rev))

{

out.println(s+" is a palindrome");

}

else

{

out.println(s+" is not a palindrome");

}

%>

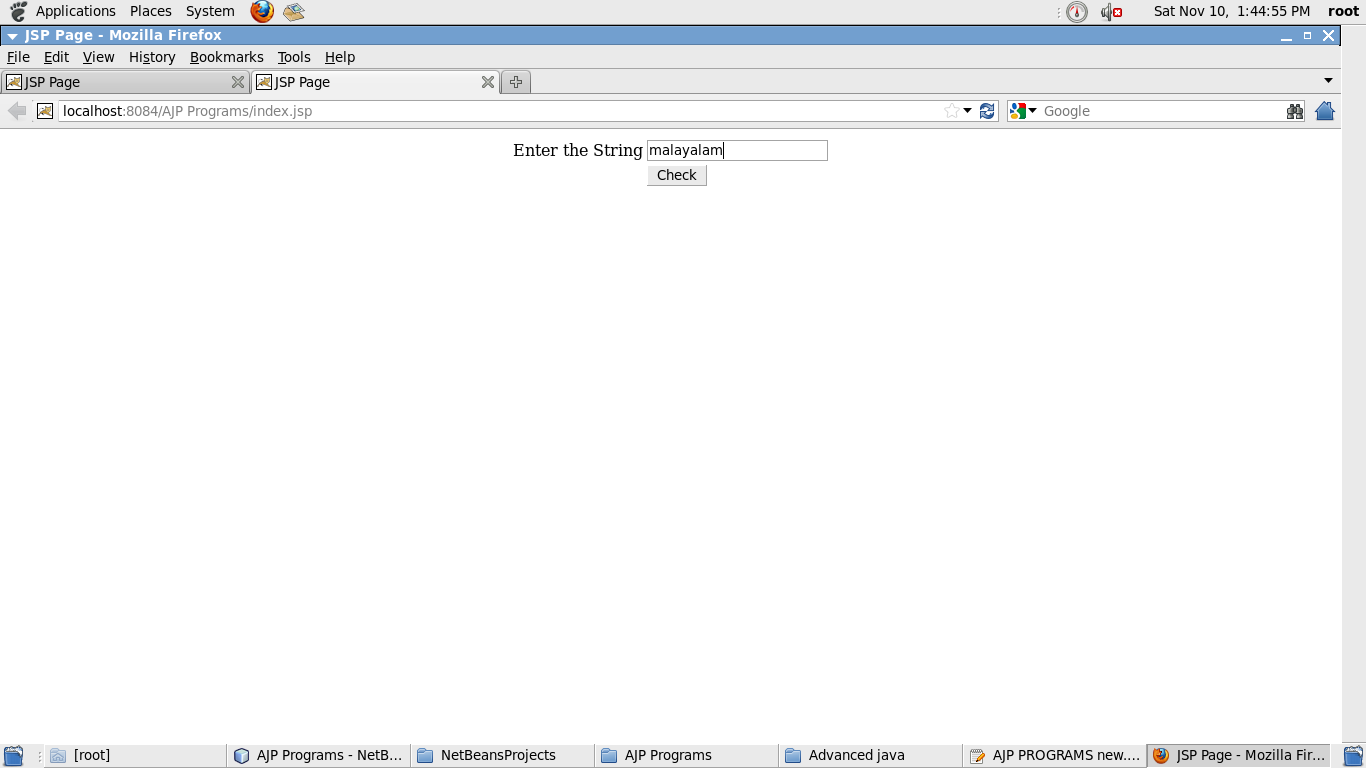
</h1>

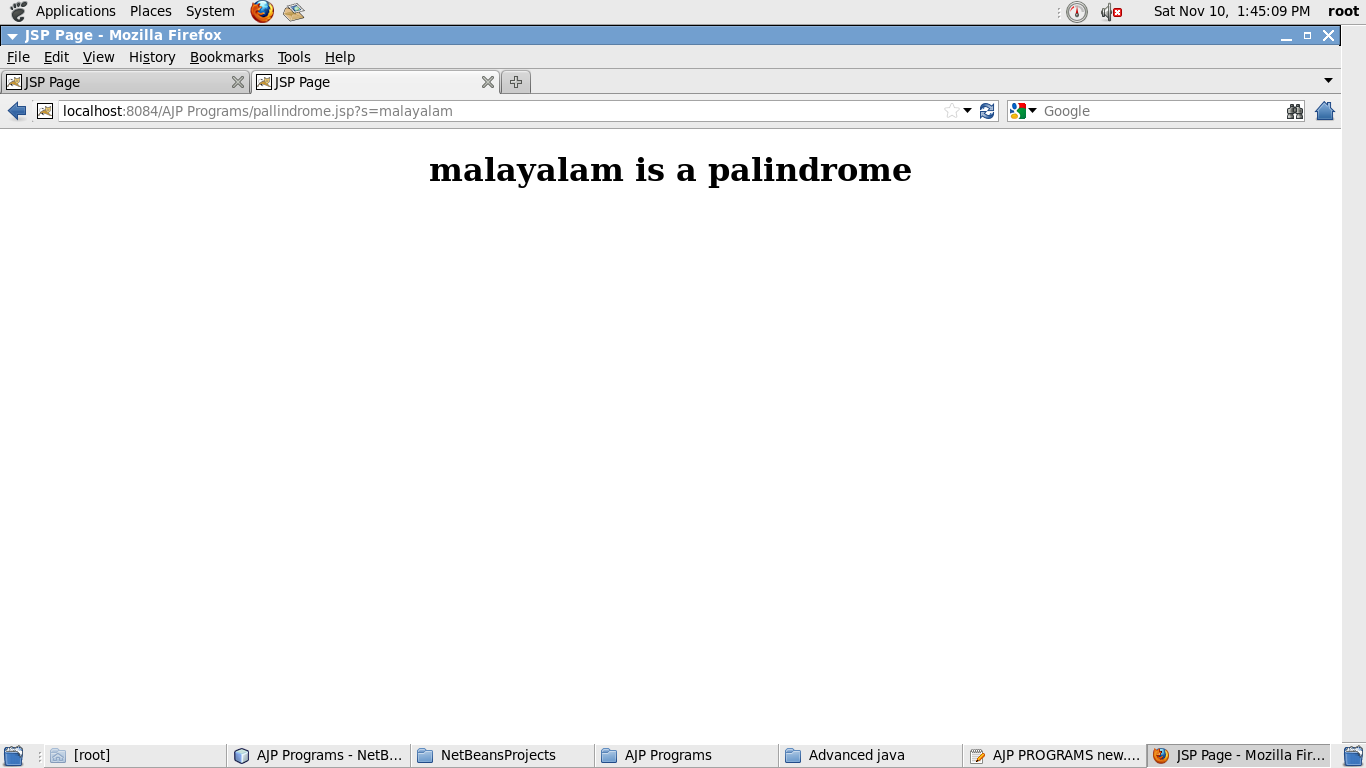
</body>

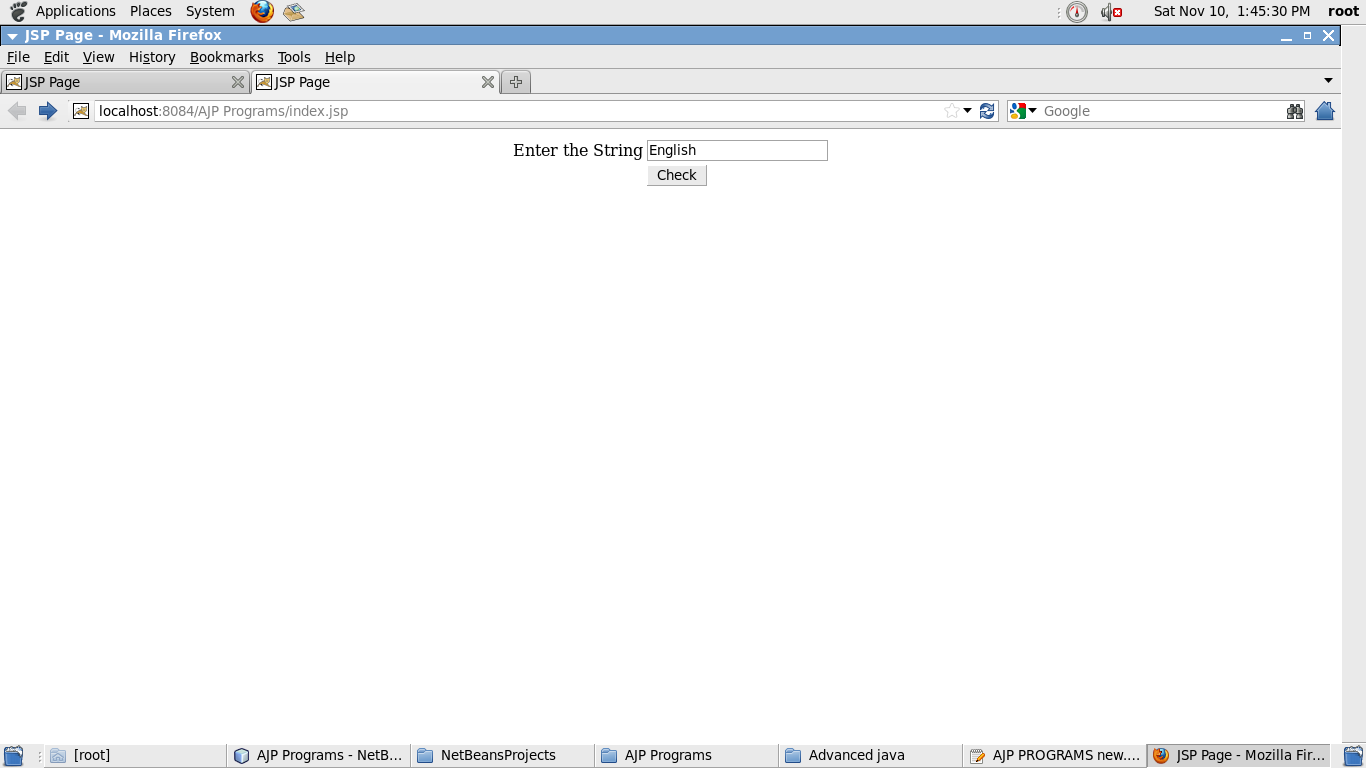
</body>

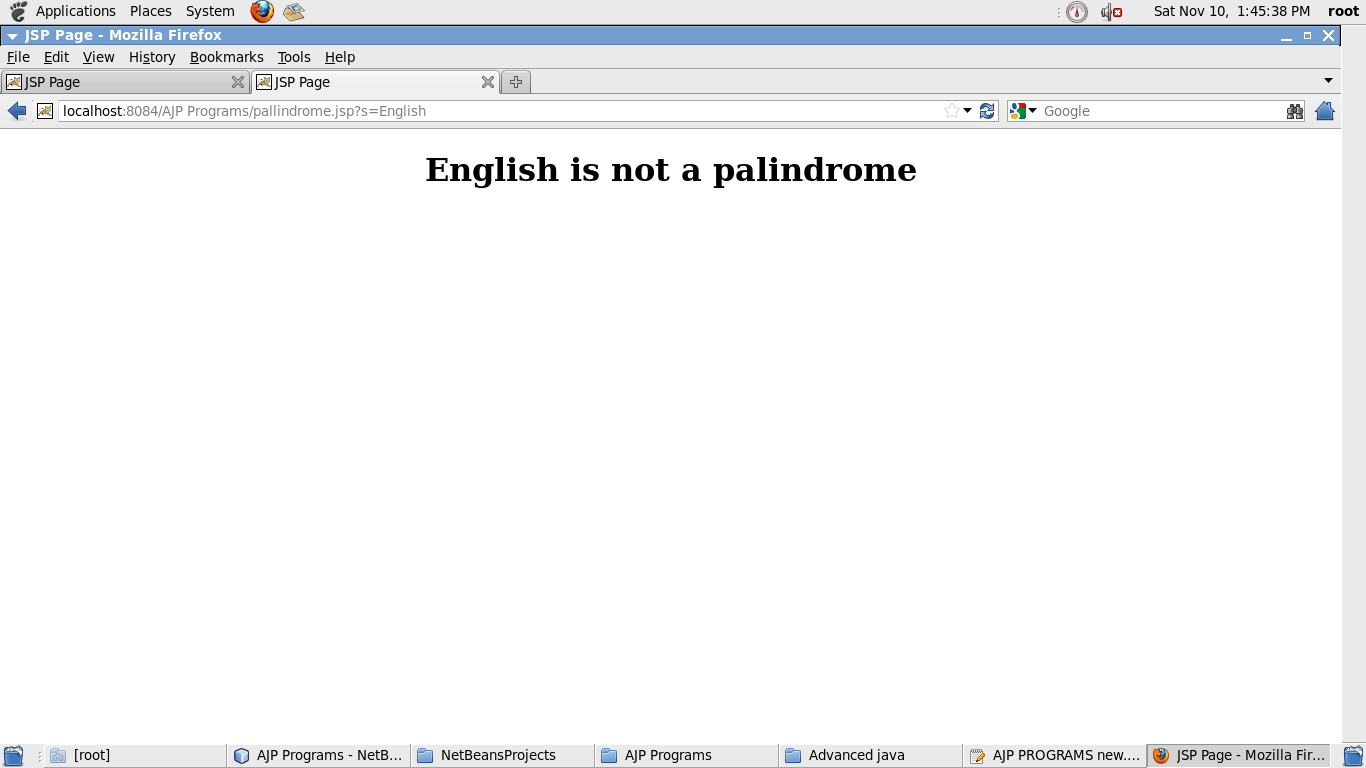
</html>

**OUTPUT:**









**PROGRAM: 6**

**AIM: Program to implement cookies.**

**Cookie1.html**

<!DOCTYPE html>

<!--

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To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width">

</head>

<body>

<center><form method="get" action="cookie2">

Name <input type="text" name="n"><br><br>

Password <input type="password" name="p"><br><br>

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

</form></center>

</body>

</html>

**Cookie2..java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author root

\*/

public class cookie2 extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\* TODO output your page here. You may use following sample code. \*/

String name = request.getParameter("n");

Cookie ck = new Cookie("user",name);

response.addCookie(ck);

out.println("<html><body><h1 align='center'>Welcome "+name);

out.println("<html><br><br><form method='get' action='cookie3'></html>");

out.println("<html><input type='submit' value='GO'></form></h1></body></html>");

} finally {

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**Cookie3..java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author root

\*/

public class cookie3 extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\* TODO output your page here. You may use following sample code. \*/

Cookie[] ck = request.getCookies();

out.println("<html>");

out.println("<body><h1 align='center'>Hello");

out.println(ck[0].getValue()+"</h1></body></html>");

} finally {

out.close();

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Handles the HTTP <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/\*\*

\* Returns a short description of the servlet.

\*

\* @return a String containing servlet description

\*/

@Override

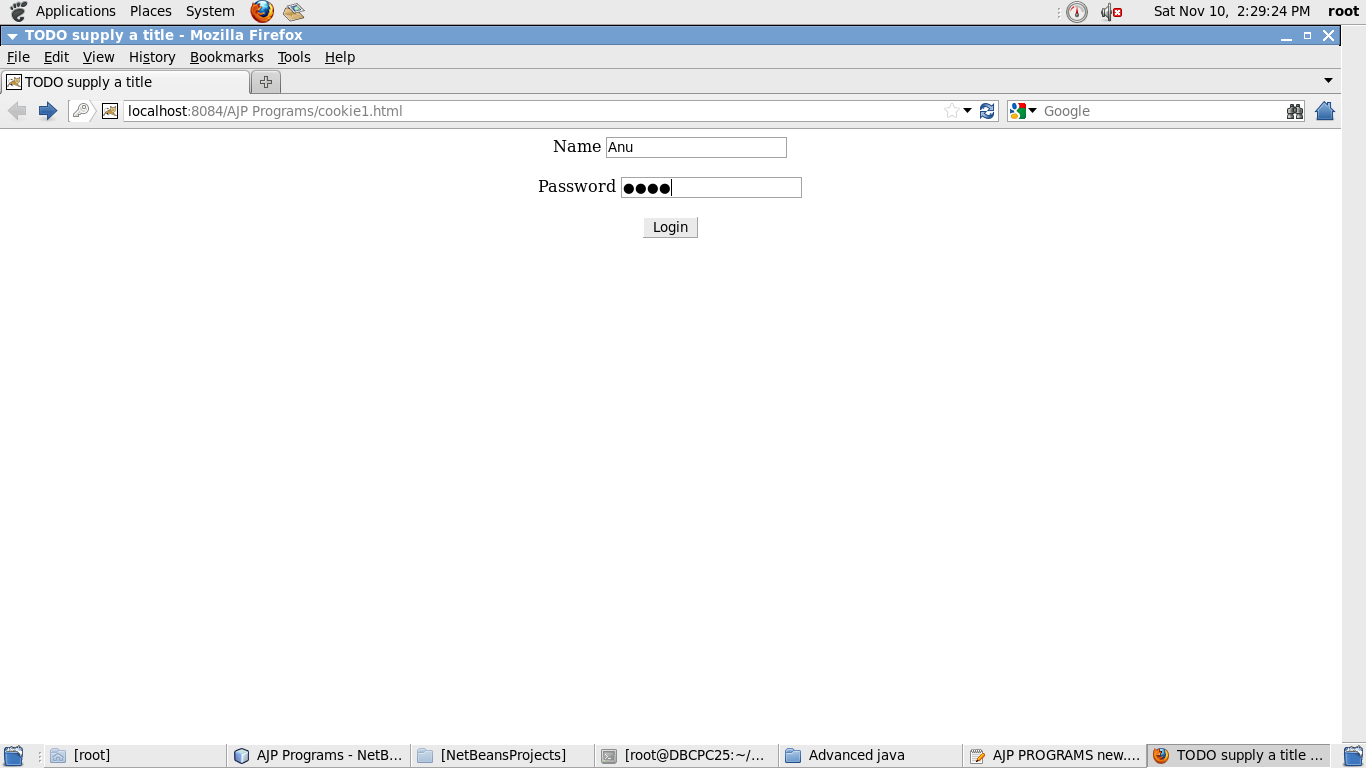
public String getServletInfo() {

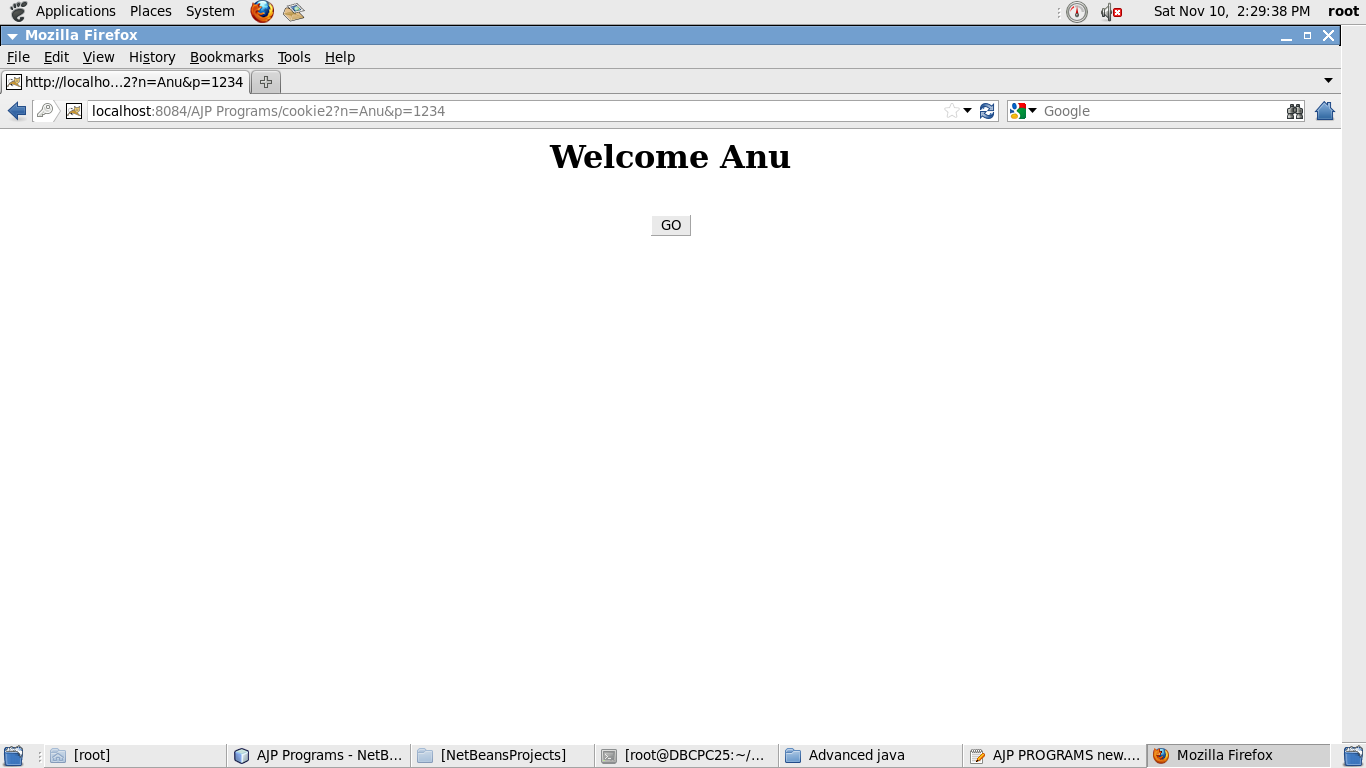
return "Short description";

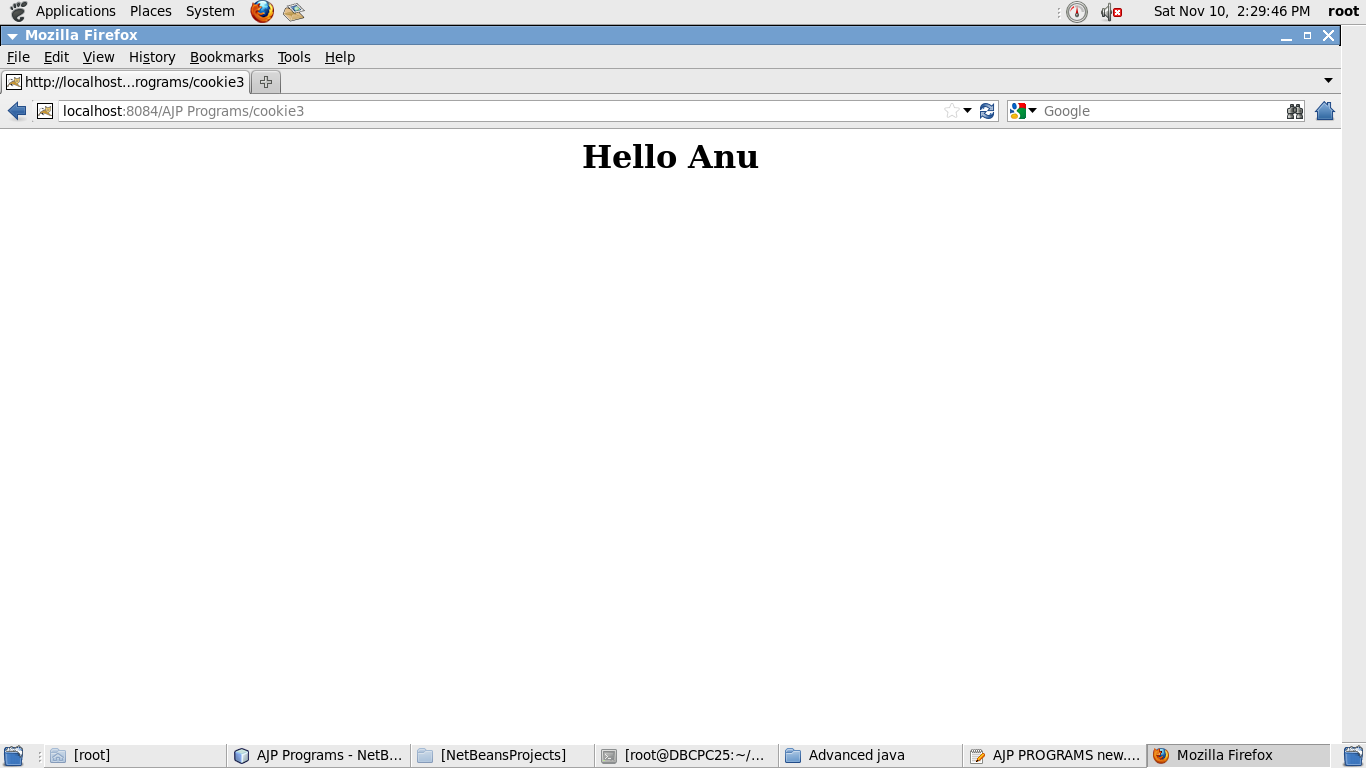
}// </editor-fold>

}

**OUTPUT:**

****

****

****

**PROGRAM: 7**

**AIM: RMI program to add two numbers.**

**Add\_interface.java**

import java.rmi.Remote;

import java.rmi.RemoteException;

public interface add\_interface extends Remote

{

public int add(int a, int b)throws RemoteException;

}

**Add\_implement.java**

import java.rmi.RemoteException;

import java.rmi.server.UnicastRemoteObject;

public class add\_implement extends UnicastRemoteObject implements add\_interface

{

add\_implement()throws RemoteException

{

super();

}

public int add(int a,int b)

{

return(a+b);

}

}

**Add\_reg.java**

import java.rmi.Naming;

import java.rmi.RemoteException;

public class add\_reg

{

public static void main(String args[])throws RemoteException

{

try

{

add\_implement ad=new add\_implement();

Naming.rebind("Aleesha",ad);

System.out.print("Object registered");

}

catch(java.net.MalformedURLException e1)

{

System.out.println("Malformed exception generated" +e1.getMessage());

}

}

}

**Add\_client.java**

import java.rmi.\*;

import java.io.\*;

public class add\_client

{

public static void main(String args[]) throws IOException

{

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

System.out.println("Enter two numbers");

int x=Integer.parseInt(br.readLine());

int y= Integer.parseInt(br.readLine());

try

{

add\_interface obj=(add\_interface)Naming.lookup("rmi://127.0.0.1/Aleesha");

System.out.println("Result:"+obj.add(x,y));

}

catch(Exception e1)

{

System.out.println("Remote Exception"+e1.getMessage());

}

}

}

**OUTPUT:**

[root@DBCPC25 Advanced java]# vi add\_interface.java

[root@DBCPC25 Advanced java]# vi add\_implement.java

[root@DBCPC25 Advanced java]# vi add\_reg.java

[root@DBCPC25 Advanced java]# vi add\_client.java

[root@DBCPC25 Advanced java]# javac add\_interface.java

[root@DBCPC25 Advanced java]# javac add\_implement.java

[root@DBCPC25 Advanced java]# rmic add\_implement

[root@DBCPC25 Advanced java]# javac add\_reg.java

[root@DBCPC25 Advanced java]# rmiregistry &

[1] 3258

[root@DBCPC25 Advanced java]# java add\_reg

Object registered

[root@DBCPC25 Advanced java]# javac add\_client.java

[root@DBCPC25 Advanced java]# java add\_client

Enter two numbers

45

10

Result:55

**PROGRAM: 8**

**AIM: RMI program to add two complex numbers.**

**complex\_Interface**

import java.rmi.Remote;

import java.rmi.RemoteException;

public interface complex\_Interface extends Remote

{

public void cadd(int a, int b,int c,int d)throws RemoteException;

}

**complex\_Implement**

import java.rmi.RemoteException;

import java.rmi.server.UnicastRemoteObject;

public class complex\_Implement extends UnicastRemoteObject implements

complex\_Interface

{

complex\_Implement()throws RemoteException

{

super();

}

public void cadd(int a,int b,int c,int d)

{

int m=a+c;

int n=b+d;

System.out.println("\nResult:"+m+"+i"+n);

}

}

**complex\_Reg**

import java.rmi.Naming;

import java.rmi.RemoteException;

public class complex\_Reg

{

public static void main(String args[])throws RemoteException

{

try

{

complex\_Implement ad=new complex\_Implement();

Naming.rebind("Sarikacomplex",ad);

System.out.print("Object registered");

}

catch(java.net.MalformedURLException e)

{

System.out.println("Malforward exception generated"+e.getMessage());

}

}

}

**complex\_client**

import java.rmi.\*;

import java.io.\*;

public class complex\_client

{

public static void main(String args[]) throws IOException

{

BufferedReader br=new BufferedReader(new

InputStreamReader(System.in));

System.out.println("Enter real and imaginary part of first complexnumbers");

int x=Integer.parseInt(br.readLine());

int y= Integer.parseInt(br.readLine());

System.out.println("Enter real and imaginary part of second complex numbers");

int z=Integer.parseInt(br.readLine());

int w= Integer.parseInt(br.readLine());

try

{

complex\_Interface

obj=(complex\_Interface)Naming.lookup("rmi://127.0.0.1/Sarikacomplex");

obj.cadd(x,y,z,w);

}

catch(Exception e1)

{

System.out.println("Remote Exception"+e1.getMessage());

}

}

}

**OUTPUT:**

[root@DBCPC25 Advanced java]# vi complex\_Interface.java

[root@DBCPC25 Advanced java]# vi complex\_Implement.java

[root@DBCPC25 Advanced java]# vi complex\_Reg.java

[root@DBCPC25 Advanced java]# vi complex\_client.java

[root@DBCPC25 Advanced java]# javac complex\_Interface.java

[root@DBCPC25 Advanced java]# javac complex\_Implement.java

[root@DBCPC25 Advanced java]# javac complex\_Reg.java

[root@DBCPC25 Advanced java]# javac complex\_client.java

[root@DBCPC25 Advanced java]# rmic complex\_Interface

[root@DBCPC25 Advanced java]# rmiregistry &

[1] 4828

[root@DBCPC25 Advanced java]# java -classpath .:postgresql-9.0-801.jdbc4.jar complex\_Reg

Object registered

[root@DBCPC25 Advanced java]# java complex\_client

Enter real and imaginary part of first complexnumbers

3

5

Enter real and imaginary part of second complex numbers

4

5

Result:7+i10

**PROGRAM :9**

**AIM:Program to implement RMI Database.**

**DB\_Interface.java**

import java.rmi.Remote;

import java.rmi.RemoteException;

public interface DB\_Interface extends Remote

{

public void dbdisplay(String s3,String s2,int x)throws RemoteException;

}

**DB\_Implement1.java**

import java.io.\*;

import java.sql.\*;

import java.rmi.RemoteException;

import java.rmi.server.UnicastRemoteObject;

public class DB\_Implement1 extends UnicastRemoteObject implements DB\_Interface

{

DB\_Implement1()throws RemoteException

{

super();

}

public void dbdisplay(String s1,String s2,int m)

{

try

{

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

Class.forName("org.postgresql.Driver");

String url = "jdbc:postgresql:emp1";

String str1="insert into employ1 values('"+s1+"',"+"'"+s2+"',"+"'"+m+"')";

Connection con = DriverManager.getConnection(url, "postgres","");

Statement stm = con.createStatement();

stm.executeUpdate(str1);

ResultSet rs = stm.executeQuery("select name,place,age from employ1");

System.out.println("");

System.out.println("");

System.out.println(" Name Place Age" );

System.out.println("--------- ----------- ---------- ");

while( rs.next())

{

System.out.print(rs.getString("name"));

System.out.print(" "+rs.getString("place"));

System.out.println(" "+rs.getString("age"));

}

}

catch(java.lang.ClassNotFoundException e)

{

System.err.print("ClassNotFoundException: ");

System.err.println(e.getMessage());

}

catch (SQLException e)

{

System.out.println("Exception!");

}

**DB\_Reg.java**

import java.rmi.Naming;

import java.rmi.RemoteException;

public class DB\_Reg

{

public static void main(String args[])throws RemoteException

{

try

{

DB\_Implement1 ad=new DB\_Implement1();

Naming.rebind("SarikaDB",ad);

System.out.print("Object registered");

}

catch(java.net.MalformedURLException e)

{

System.out.println("Malforward exception generated"+e.getMessage());

}

}

}

**DB\_client.java**

import java.rmi.\*;

import java.io.\*;

public class DB\_client

{

public static void main(String args[]) throws IOException

{

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

System.out.println("ok");

try

{

System.out.println("ENTER name place age");

String s1=br.readLine();

String s2=br.readLine();

int z=Integer.parseInt(br.readLine());

DB\_Interface obj=(DB\_Interface)Naming.lookup("rmi://127.0.0.1/SarikaDB");

obj.dbdisplay(s2,s2,z);

}

catch(Exception e1)

{

System.out.println("Remote Exception"+e1.getMessage());

}

}

}

**OUTPUT**

[root@DBCPC20 Desktop]# vim DB\_Interface.java

[root@DBCPC20 Desktop]# cd RMI\_DB

[root@DBCPC20 RMI\_DB]# vim DB\_Interface.java

[root@DBCPC20 RMI\_DB]# vim DB\_Implement1.java

[root@DBCPC20 RMI\_DB]# vim DB\_Reg.java

[root@DBCPC20 RMI\_DB]# vim DB\_client.java

[root@DBCPC20 RMI\_DB]# javac DB\_Interface.java

[root@DBCPC20 RMI\_DB]# rmic DB\_Implement1.java

[root@DBCPC20 RMI\_DB]# rmic DB\_Implement1

[root@DBCPC20 RMI\_DB]# rmiregistry &

[1] 19040

[root@DBCPC20 RMI\_DB]# java -classpath .:postgresql-9.0-801.jdbc4.jar DB\_Reg

Object registered

Name Place Age

--------- ----------- ----------

Athira Kannur 23

Naveen Kannur 22

[root@DBCPC20 RMI\_DB]# javac DB\_client.java

[root@DBCPC20 RMI\_DB]# java DB\_client

ok

ENTER name place age

Athira

Kannur

23

**PROGRAM NO:10**

**AIM:A program to demonstrate EJB**

**AbstractFacade.java**

/\*  
 \* To change this license header, choose License Headers in Project Properties.  
 \* To change this template file, choose Tools | Templates  
 \* and open the template in the editor.  
 \*/  
package com.example.bean;  
import java.util.List;  
import javax.persistence.EntityManager;  
/\*\*  
 \* @author root  
 \*/  
public abstract class AbstractFacade<T> {  
 private Class<T> entityClass;  
 public AbstractFacade(Class<T> entityClass) {  
 this.entityClass = entityClass;  
 }  
 protected abstract EntityManager getEntityManager();  
 public void create(T entity) {  
 getEntityManager().persist(entity);  
 }  
 public void edit(T entity) {  
 getEntityManager().merge(entity);  
 }  
 public void remove(T entity) {  
 getEntityManager().remove(getEntityManager().merge(entity));  
 }  
 public T find(Object id) {  
 return getEntityManager().find(entityClass, id);  
 }  
 public List<T> findAll() {  
 javax.persistence.criteria.CriteriaQuery cq = getEntityManager().getCriteriaBuilder().createQuery();  
 cq.select(cq.from(entityClass));  
 return getEntityManager().createQuery(cq).getResultList();  
 }  
 public List<T> findRange(int[] range) {  
 javax.persistence.criteria.CriteriaQuery cq = getEntityManager().getCriteriaBuilder().createQuery();  
 cq.select(cq.from(entityClass));  
 javax.persistence.Query q = getEntityManager().createQuery(cq);  
 q.setMaxResults(range[1] - range[0] + 1);  
 q.setFirstResult(range[0]);  
 return q.getResultList();  
 }  
 public int count() {  
 javax.persistence.criteria.CriteriaQuery cq = getEntityManager().getCriteriaBuilder().createQuery();  
 javax.persistence.criteria.Root<T> rt = cq.from(entityClass);  
 cq.select(getEntityManager().getCriteriaBuilder().count(rt));  
 javax.persistence.Query q = getEntityManager().createQuery(cq);  
 return ((Long) q.getSingleResult()).intValue();  
 }  
}

**Stud.java**

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.example.bean;

import java.io.Serializable;

import javax.persistence.Basic;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.NamedQueries;

import javax.persistence.NamedQuery;

import javax.persistence.Table;

import javax.validation.constraints.NotNull;

import javax.validation.constraints.Size;

import javax.xml.bind.annotation.XmlRootElement;

/\*\*

\*

\* @author root

\*/

@Entity

@Table(name = "stud")

@XmlRootElement

@NamedQueries({

@NamedQuery(name = "Stud.findAll", query = "SELECT s FROM Stud s"),

@NamedQuery(name = "Stud.findByRegno", query = "SELECT s FROM Stud s WHERE s.regno = :regno"),

@NamedQuery(name = "Stud.findByName", query = "SELECT s FROM Stud s WHERE s.name = :name"),

@NamedQuery(name = "Stud.findByDepartment", query = "SELECT s FROM Stud s WHERE s.department = :department"),

@NamedQuery(name = "Stud.findByEmailid", query = "SELECT s FROM Stud s WHERE s.emailid = :emailid")})

public class Stud implements Serializable {

private static final long serialVersionUID = 1L;

@Id

@Basic(optional = false)

@NotNull

@Column(name = "regno")

private Integer regno;

@Size(max = 20)

@Column(name = "name")

private String name;

@Size(max = 20)

@Column(name = "department")

private String department;

@Size(max = 100)

@Column(name = "emailid")

private String emailid;

public Stud() {

}

public Stud(Integer regno) {

this.regno = regno;

}

public Integer getRegno() {

return regno;

}

public void setRegno(Integer regno) {

this.regno = regno;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getDepartment() {

return department;

}

public void setDepartment(String department) {

this.department = department;

}

public String getEmailid() {

return emailid;

}

public void setEmailid(String emailid) {

this.emailid = emailid;

}

@Override

public int hashCode() {

int hash = 0;

hash += (regno != null ? regno.hashCode() : 0);

return hash;

}

@Override

public boolean equals(Object object) {

// TODO: Warning - this method won't work in the case the id fields are not set

if (!(object instanceof Stud)) {

return false;

}

Stud other = (Stud) object;

if ((this.regno == null && other.regno != null) || (this.regno != null && !this.regno.equals(other.regno))) {

return false;

}

return true;

}

@Override

public String toString() {

return "com.example.bean.Stud[ regno=" + regno + " ]";

}

}

**StudFacade.java**

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.example.bean;

import javax.ejb.Stateless;

import javax.persistence.EntityManager;

import javax.persistence.PersistenceContext;

/\*\*

\*

\* @author root

\*/

@Stateless

public class StudFacade extends AbstractFacade<Stud> implements StudFacadeLocal {

@PersistenceContext(unitName = "testentity1-ejbPU")

private EntityManager em;

@Override

protected EntityManager getEntityManager() {

return em;

}

public StudFacade() {

super(Stud.class);

}

@Override

public boolean student(int regno, String name, String department, String emailid) {

try

{

Stud s= new Stud();

s.setRegno(regno);

s.setName(name);

s.setDepartment(department);

s.setEmailid(emailid);

em.persist(s);

}catch(Exception e){

System.err.println(e);

}

return true;

}

**StudFacadeLocal.java**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.example.bean;

import java.util.List;

import javax.ejb.Local;

/\*\*

\*

\* @author root

\*/

@Local

public interface StudFacadeLocal {

void create(Stud stud);

void edit(Stud stud);

void remove(Stud stud);

Stud find(Object id);

List<Stud> findAll();

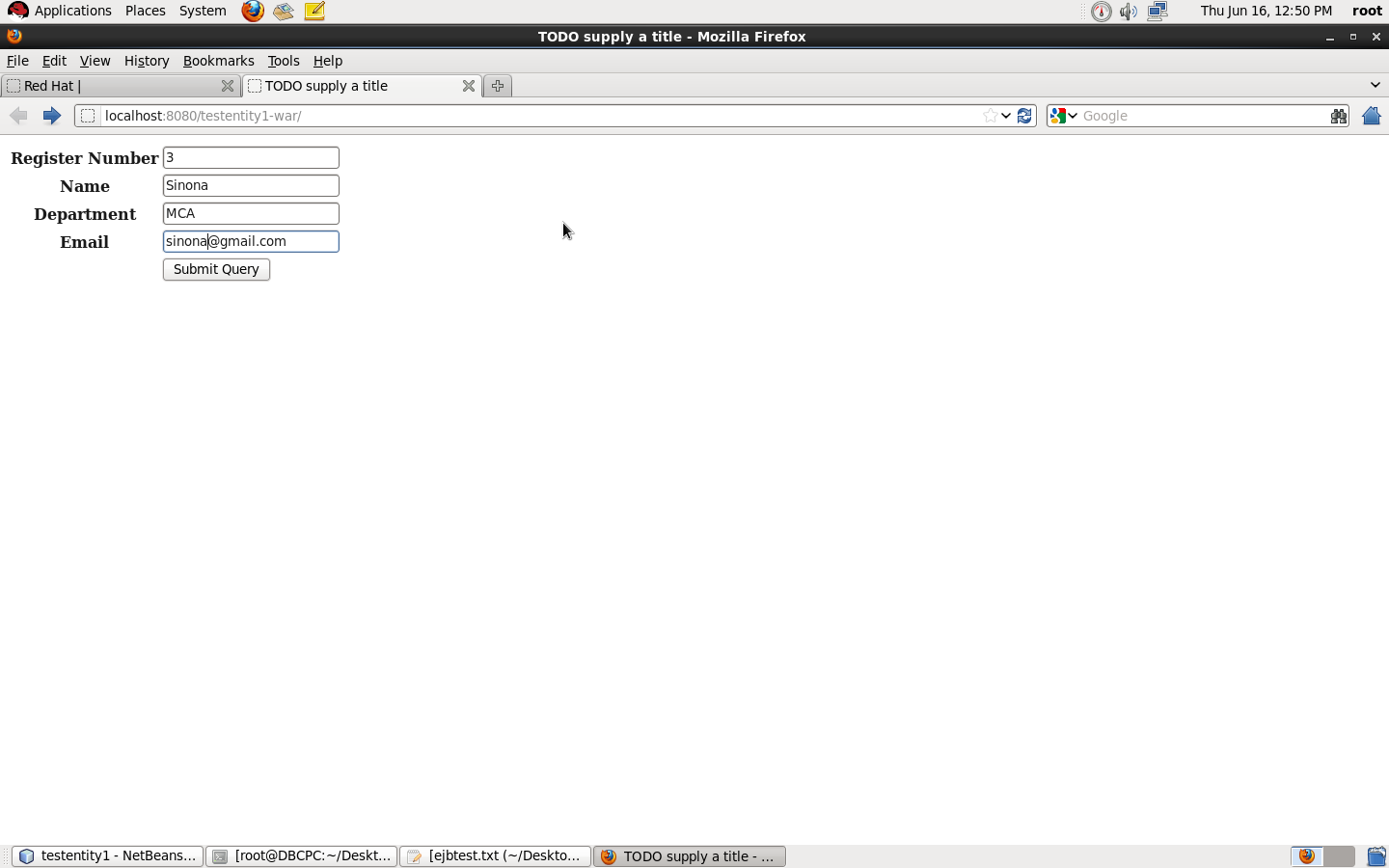
List<Stud> findRange(int[] range);

int count();

//boolean insertstud(String regno, String name, String dept, String email);

boolean student(int regno, String name, String department, String emailid);

**OUTPUT**

****

**PROGRAM :11**

**AIM:** **Program to implement CORBA.**

**add.idl**

module addApp

{

interface add

{

long addnum(in long a,in long b);

};

};

**addimpl.java**

import addApp.\*;

class addimpl extends \_addImplBase

{

public int addnum(int a,int b)

{

int l=a+b;

return l;

}

}

**addRegister.java**

import addApp.\*;

import org.omg.CosNaming.\*;

import org.omg.CosNaming.NamingContextPackage.\*;

import org.omg.CORBA.\*;

public class addRegister

{

public static void main(String args[])

{

try

{

ORB orb=ORB.init(args,null);

add c=new addimpl();

String IOR=orb.object\_to\_string(c);

System.out.println(IOR);

java.lang.Object obj=new java.lang.Object();

synchronized(obj)

{

obj.wait();

}

}

catch(Exception e)

{

e.printStackTrace();

}

}

}

**addclient.java**

import org.omg.CosNaming.\*;

import org.omg.CosNaming.NamingContextPackage.\*;

import org.omg.CORBA.\*;

import java.io.\*;

public class addclient

{

public static void main(String args[])throws Exception

{

ORB orb=ORB.init(args,null);

System.out.println("Enter the IOR String");

java.io.DataInputStream in=new java.io.DataInputStream(System.in);

String IOR=in.readLine();

org.omg.CORBA.Object obj=orb.string\_to\_object(IOR);

NVList n=orb.create\_list(2);

System.out.println("Enter the first number");

int n1=Integer.parseInt(in.readLine());

System.out.println("Enter the second number");

int n2=Integer.parseInt(in.readLine());

Any any1=orb.create\_any();

any1.insert\_long(n1);

n.add\_value("a",any1,ARG\_IN.value);

Any any2=orb.create\_any();

any2.insert\_long(n2);

n.add\_value("b",any2,ARG\_IN.value);

Any any3=orb.create\_any();

any3.insert\_long(0);

NamedValue nv=orb.create\_named\_value("ret",any3,ARG\_OUT.value);

Request req=obj.\_create\_request(null,"addnum",n,nv);

req.invoke();

int i=any3.extract\_long();

System.out.println("result is::"+i);

}

}

**OUTPUT :**

[root@DBCPC29 corba]#vi add.idl

[root@DBCPC29 corba]#vi addimpl.java

[root@DBCPC29 corba]#vi addRegister.java

[root@DBCPC29 corba]#vi addclient.java

[root@DBCPC29 corba]#idlj -fall -oldImplBase add.idl

[root@DBCPC29 corba]#javac addimpl.java

[root@DBCPC29 corba]#javac addRegister.java

[root@DBCPC29 corba]#start orbd -ORBInitialPort 1050

[root@DBCPC29 corba]#java addRegister -ORBInitialPort 1050

-ORBInitialHost localhost

[root@DBCPC29 corba]#javac addclient.java

[root@DBCPC29 corba]#java addclient -ORBInitialPort 1050

Enter the first number

45

Enter the second number

8

result is::53

**PROGRAM : 12**

**AIM : Program to listing objects using JNDI.**

**lookup.java**

import java.util.Properties;

import javax.naming.\*;

public class lookup

{

public static void main(String args[])

{

String name="";

if(args.length>0)

name=args[0];

try

{

Properties props=new Properties();

props.put(Context.INITIAL\_CONTEXT\_FACTORY,"com.sun.jndi.fscontext.RefFSContextFactory");

props.put(Context.PROVIDER\_URL,"file:C:\\Users\\USER\\Desktop\\jndi\_jar\_files");

Context initialContext=new InitialContext(props);

Object obj=initialContext.lookup(name);

if(name.equals(""))

System.out.println("looked up the initial context");

else

System.out.println(name+"is bound to :"+obj);

}

catch(NamingException nnfe)

{

System.out.println("encountered a naming exception"+nnfe);

}

}

}

**OUTPUT :**

[root@DBCPC29 classes]# vi lookup.java

[root@DBCPC29 classes]#set CLASSPATH=,;

[root@DBCPC29 classes]#javac lokup.java

[root@DBCPC29 classes]#java lookup

Looked up the initial context

**WEB TECHNOLOGY**

**PROGRAM :1**

**AIM:Program to create a newspaper page in HTML5**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title> News</title>

</head>

<body>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>HTML5</title>

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>

</script>

<![endif]-->

<style>

body {

font-family: Verdana,sans-serif;

font-size: 0.9em;

}

header, footer {

padding: 10px;

color: white;

background-color: black;

}

section {

margin: 5px;

padding: 10px;

background-color: lightgrey;

}

article {

margin: 5px;

padding: 10px;

background-color: white;

}

nav ul {

padding: 0;

}

nav ul li {

display: inline;

margin: 5px;

}

</style>

</head>

<body>

<header>

<h1>Monday Express</h1>

</header>

<nav>

<ul>

<li>News</li>

<li>Sports</li>

<li>Weather</li>

</ul>

</nav>

<section>

<h2>News Section</h2>

<article>

<h2>Exams may be back in Classes V and VIII

</h2>

<p>The process has been set in motion for the return of examinations in Classes V and VIII to arrest the "decline" in educational levels because of the current no-detention policy till Class 8.</p>

<p>He said re-examinations would be immediately conducted for students who failed in Classes V and VIII so as to facilitate their passage to the next stage even while ensuring that standards improved.</p>

</article>

<article>

<h2>Collector, officials visit village in town bus

</h2>

<p>For the 20 and odd officials of various departments in Virudhunagar district, attending mass contact programme in a remote village near Kariyapatti was a different experience on Tuesday as they had to shun their official cars and SUVs.</p>

<p>Trying to revive a practice, now not in vogue in many districts, Collector A. Sivagnanam ordered for a charted town bus from the Collectorate to take the officials to Panjar village under Pambapatti panchayat in Kariyapatti taluk. </p>

</article>

</section>

<footer>

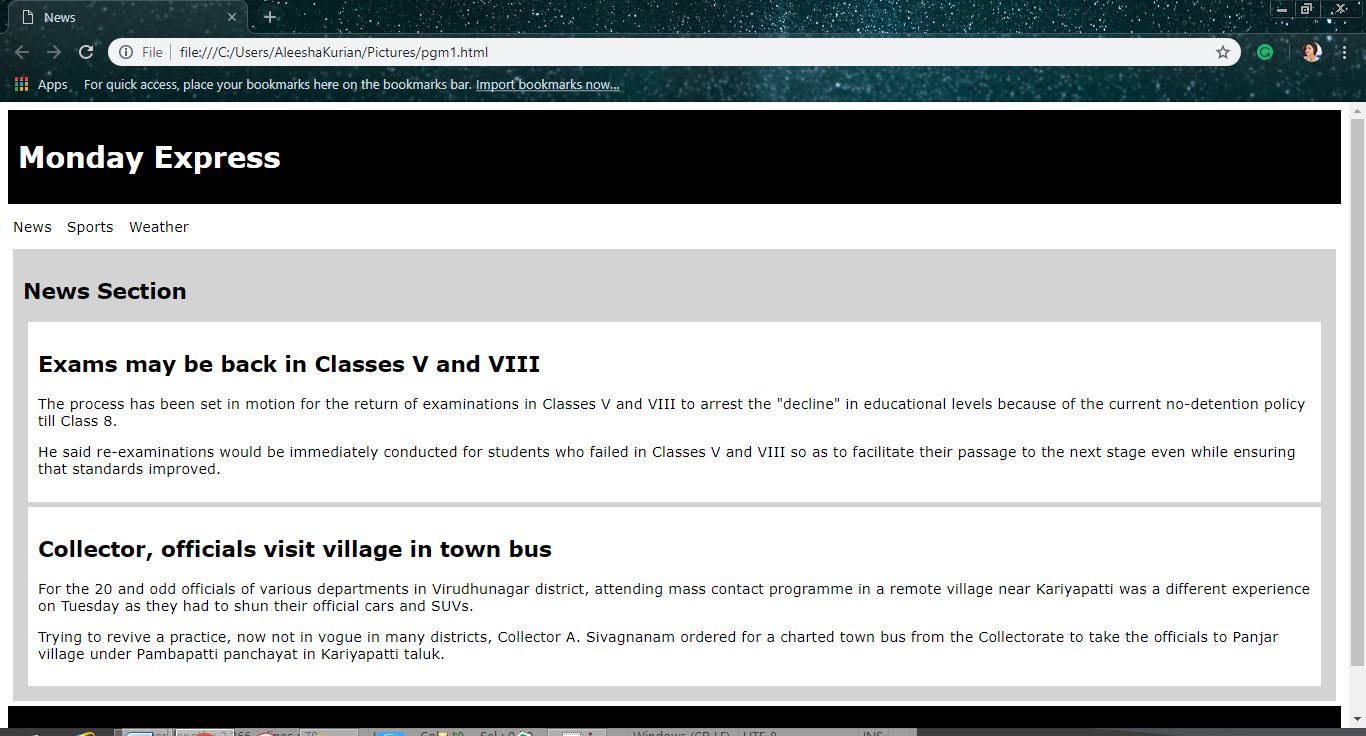
<p>&copy; 2014 Monday Times. All rights reserved. </p>

</footer>

</body>

</html>

**OUTPUT:**



**PROGRAM : 2**

**AIM: Program to find the Browser inner width and height.**

<!DOCTYPE html>

<html>

<title>Window height</title>

<body>

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

<script>

var w = window.innerWidth

|| document.documentElement.clientWidth

|| document.body.clientWidth;

var h = window.innerHeight

|| document.documentElement.clientHeight

|| document.body.clientHeight;

var x = document.getElementById("demo");

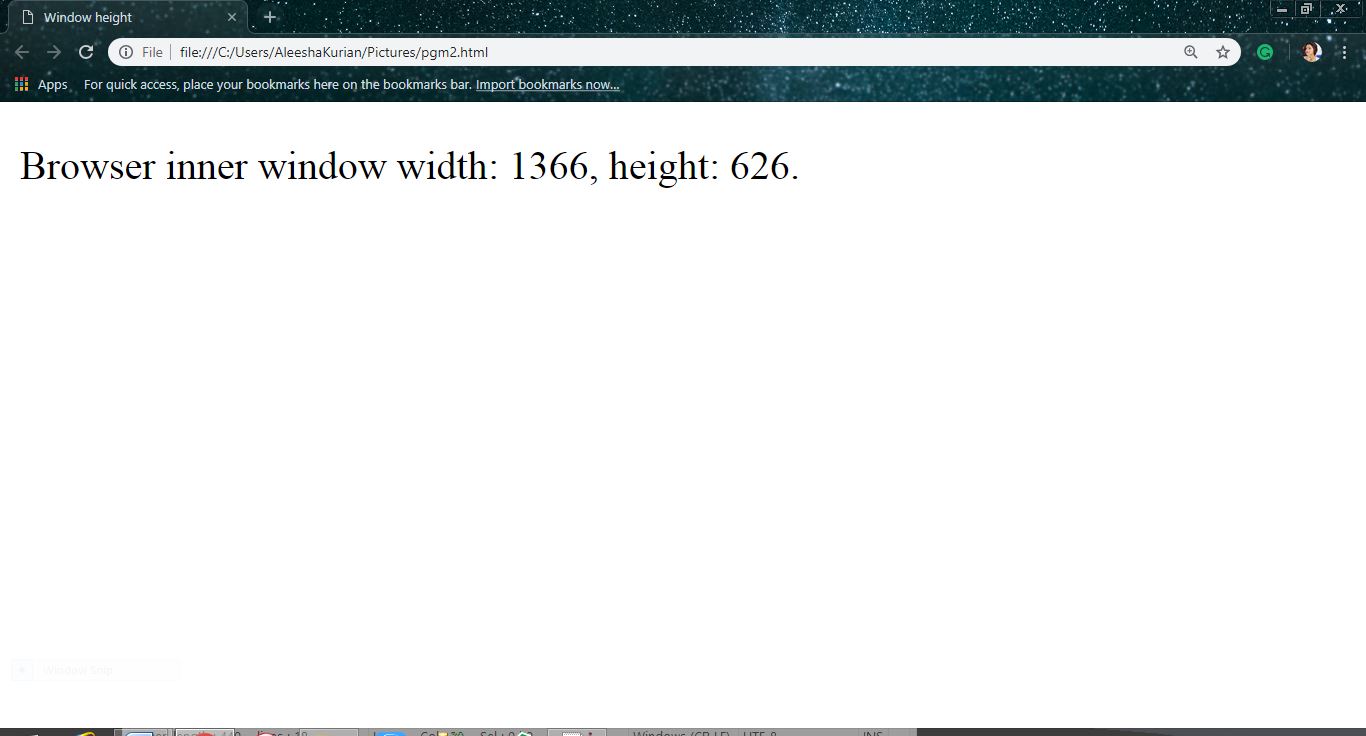
x.innerHTML = "Browser inner window width: " + w + ", height: " + h + ".";

</script>

</body>

</html>

**OUTPUT:**



**PROGRAM :3**

**AIM: Program to check the form validation.**

<html>

<head>

<title>Registration Form</title>

<script type="text/javascript">

function validate\_form() {

if (document.emp.emp\_name.value == "") {

alert("Please fill in the 'Your Name' box.");

return false;

}

if (document.emp.num.value == "") {

alert("Enter roll Number");

return false;

}

alert("sucessfully Submitted");

if (!(/^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/).test(document.emp.email\_id.value)) {

alert("You have entered an invalid email address!")

return (false)

}

}

function isNumberKey(evt) {

var charCode = (evt.which) ? evt.which : event.keyCode;

if (charCode != 46 && charCode > 31 &&

(charCode < 48 || charCode > 57)) {

alert("Enter Number");

return false;

}

return true;

}

//-->

</script>

</head>

<body bgcolor="#FFFFFF">

<form name="emp" action="" onsubmit="return validate\_form();" method="post">

<table align="center" width=40% width="100%" cellspacing="2" cellpadding="2" border="5">

<tr>

<td colspan="2" align="center"><b>Student Registration Form.</b></td>

</tr>

<tr>

<td align="left" valign="top" width="41%"> Name<span style="color:red">\*</span></td>

<td width="57%"><input type="text" value="" name="emp\_name" size="24"></td>

</tr>

<tr>

<td align="left" valign="top" width="41%">Roll Number<span style="color:red">\*</span></td>

<td width="57%">

<input type="text" value="" name="num" onkeypress="return isNumberKey(event)" size="24"></td>

</tr>

<tr>

<td align="left" valign="top" width="41%">Address</td>

<td width="57%"><textarea rows="4" maxlen="200" name="S2" cols="20"></textarea></td>

</tr <tr>

<td align="left" valign="top" width="41%">Contact Number</td>

<td width="57%">

<input type="text" value="" onkeypress="return isNumberKey(event)" name="txtFName1" size="24"></td>

</tr>

<tr>

<td align="left" valign="top" width="41%"> Location</td>

<td width="57%"><select name="mydropdown">

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

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

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

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

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

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

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

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

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

</select></td>

</tr>

<tr>

<td align="left" valign="top" width="41%">Email<span style="color:red">\*</span></td>

<td width="57%">

<input type="text" value="" name="email\_id" size="24"></td>

</tr>

<tr>

<td colspan="2">

<p align="center">

<input type="submit" value=" Submit" name="B4">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="reset" value=" Reset All " name="B5"></td>

</tr>

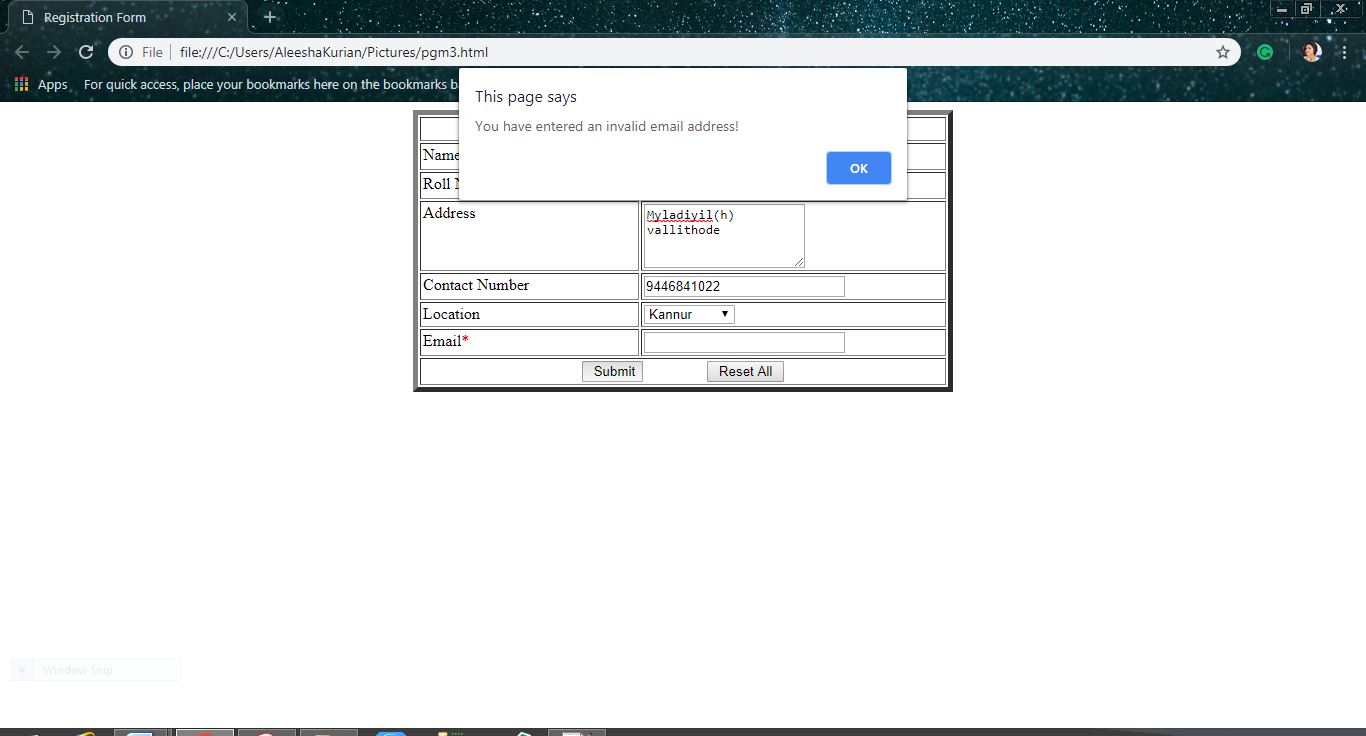
</table>

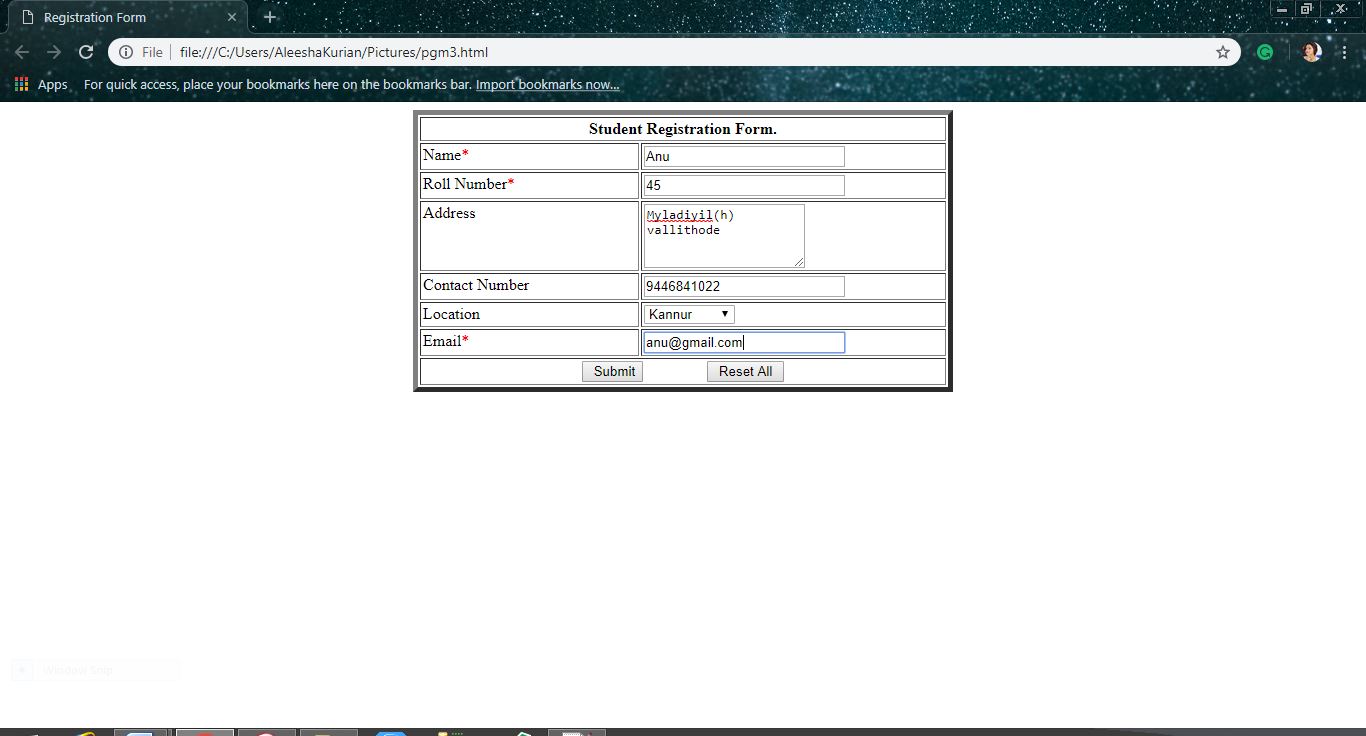
</form>

</body>

</html>

**OUTPUT:**





**PROGRAM :4**

**AIM: Program to create a simple calculator.**

<html>

<head></head>

<body>

<h3>Simple Calculator</h3>

<br/>

<style>

#calc{width:300px;height:250px;}

#btn{width:100%;height:40px;font-size:20px;}

</style>

<form Name="calc">

<table id="calc" border=2>

<tr>

<td colspan=4><input id="btn" name="display" onkeypress="return event.charCode >= 48 && event.charCode <= 57" type="text"></td>

<td style="display:none"><input name="M" type="number"></td>

</tr>

<tr>

<td><input id="btn" type=button value="0" OnClick="calc.display.value+='0'"></td>

<td><input id="btn" type=button value="1" OnClick="calc.display.value+='1'"></td>

<td><input id="btn" type=button value="2" OnClick="calc.display.value+='2'"></td>

<td><input id="btn" type=button value="+" OnClick="calc.display.value+='+'"></td>

</tr>

<tr>

<td><input id="btn" type=button value="3" OnClick="calc.display.value+='3'"></td>

<td><input id="btn" type=button value="4" OnClick="calc.display.value+='4'"></td>

<td><input id="btn" type=button value="5" OnClick="calc.display.value+='5'"></td>

<td><input id="btn" type=button value="-" OnClick="calc.display.value+='-'"></td>

</tr>

<tr>

<td><input id="btn" type=button value="6" OnClick="calc.display.value+='6'"></td>

<td><input id="btn" type=button value="7" OnClick="calc.display.value+='7'"></td>

<td><input id="btn" type=button value="8" OnClick="calc.display.value+='8'"></td>

<td><input id="btn" type=button value="x" OnClick="calc.display.value+='\*'"></td>

</tr>

<tr>

<td><input id="btn" type=button value="9" OnClick="calc.display.value+='9'"></td>

<td> <input id="btn" type=button value="C" OnClick="calc.display.value=''"></td>

</td>

<td><input id="btn" type=button value="=" OnClick="calc.display.value=eval(calc.display.value)"></td>

<td><input id="btn" type=button value="/" OnClick="calc.display.value+='/'"></td>

</tr>

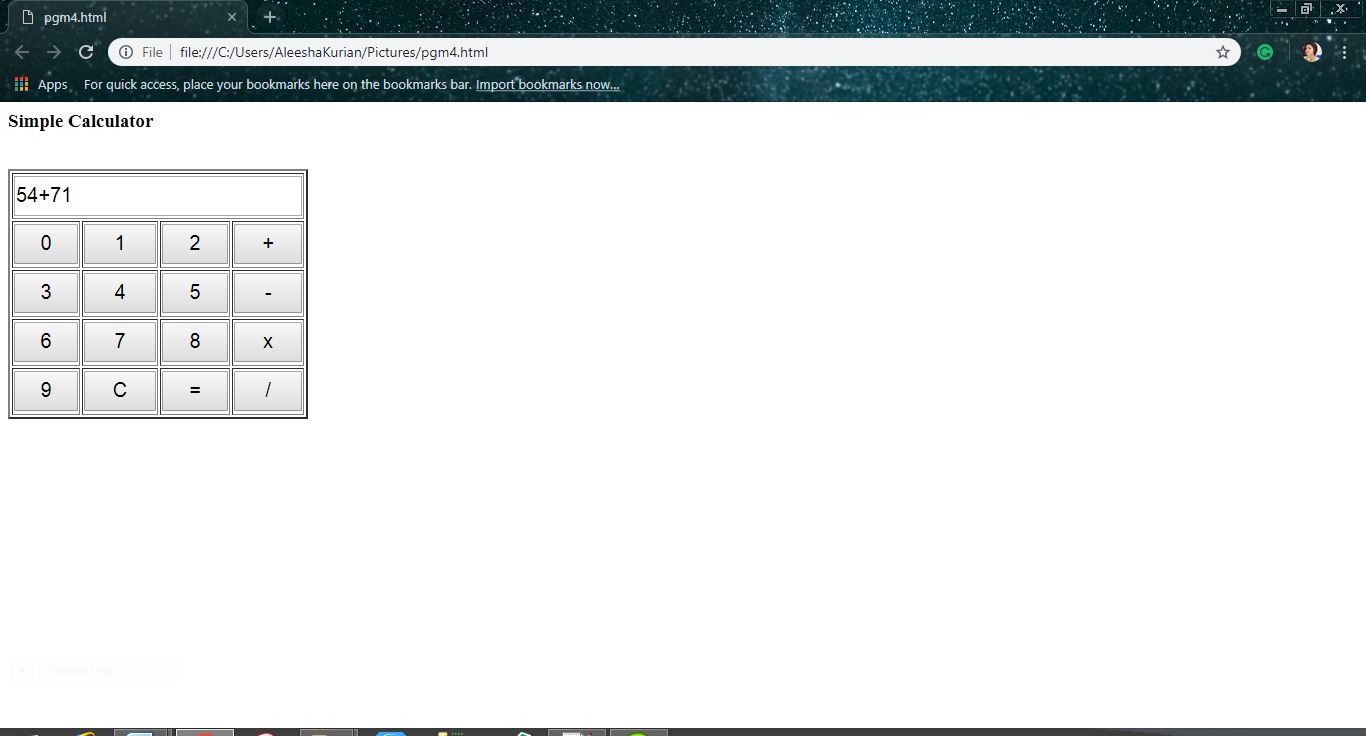
</table>

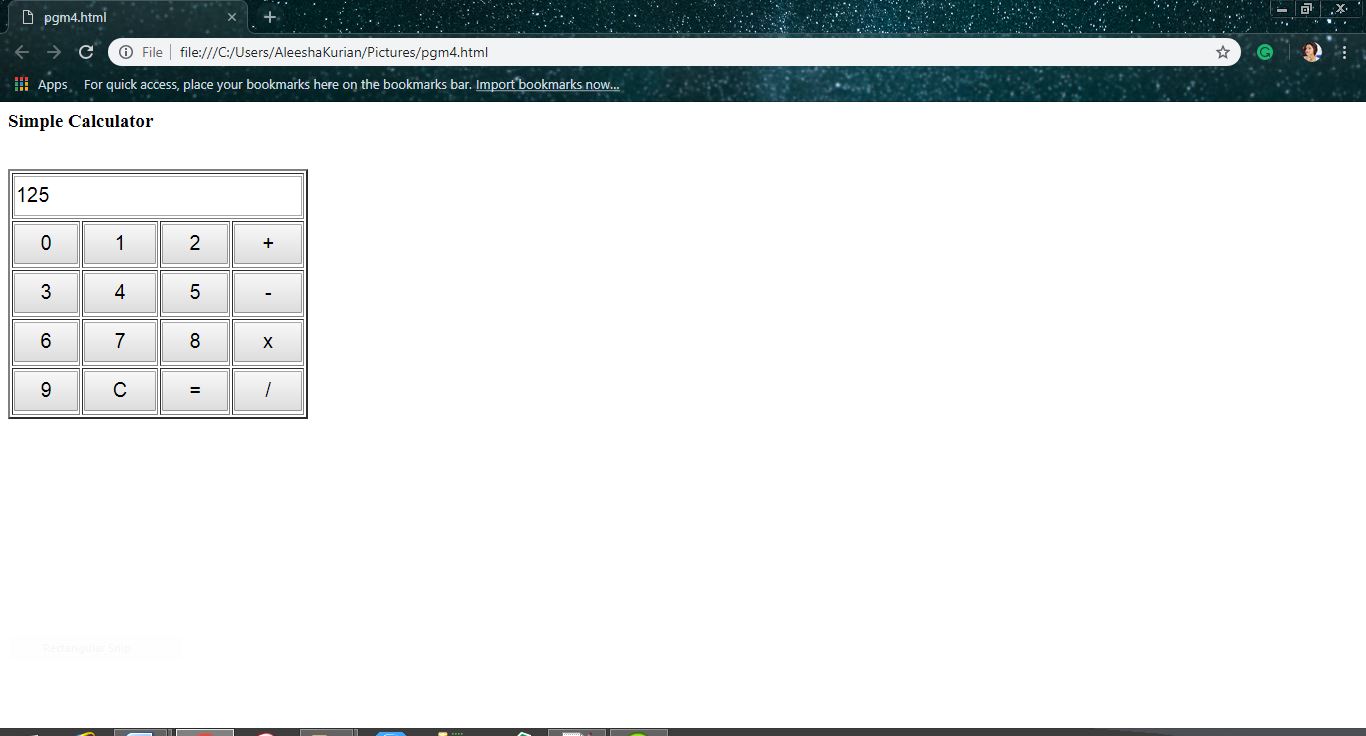
</form>

</body>

</html>

**OUTPUT**





**PROGRAM :5**

**AIM: Program to call a function which performs a calculation, and returns the result.**

<!DOCTYPE html>

<html>

<body>

<h1>JavaScript Functions</h1>

<p>This example calls a function which performs a calculation(product), and returns the result:</p>

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

<script>

function myFunction(a, b) {

return a \* b;

}

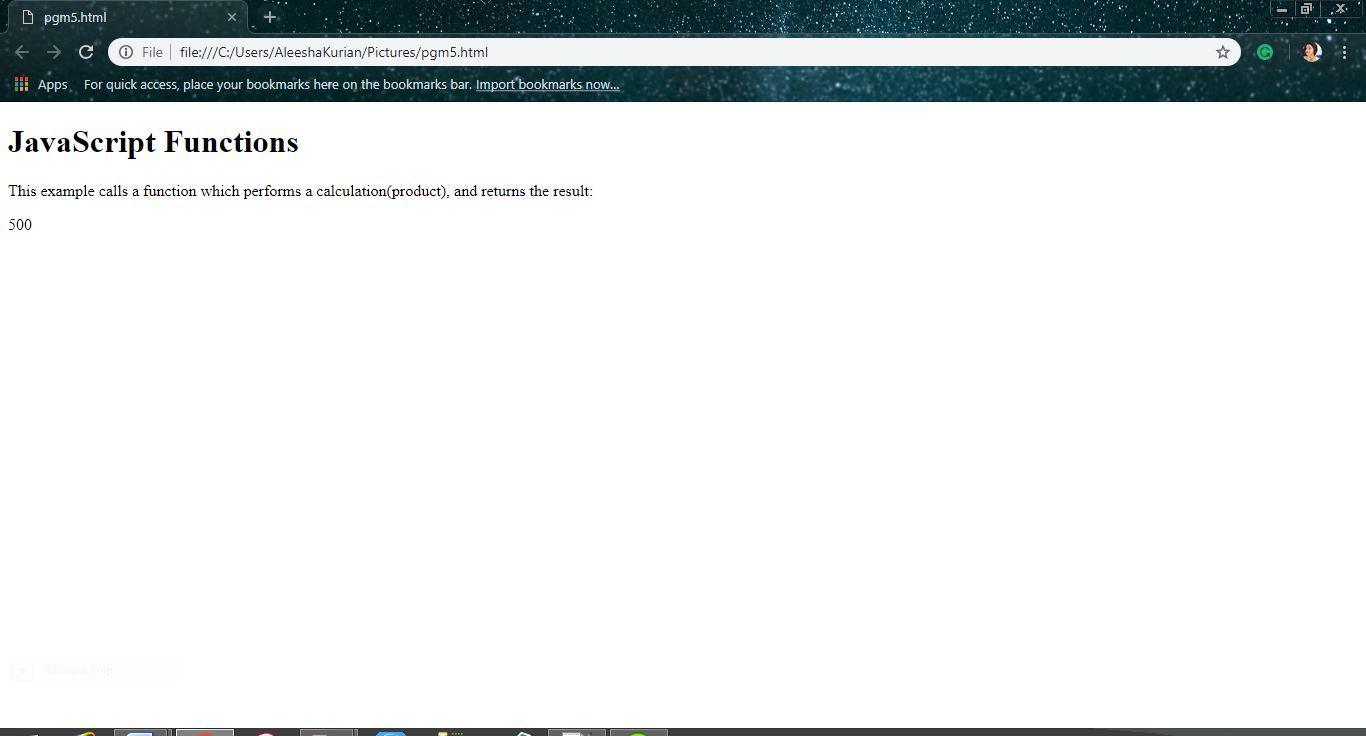
document.getElementById("demo").innerHTML = myFunction(10, 50);

</script>

</body>

</html>

**OUTPUT:**



**PROGRAM :6**

**AIM: Program for displaying the variable values.**

<!DOCTYPE html>

<html>

<body>

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

<script>

var answer1 = "It's alright";

var answer2 = "He is called 'Don'";

var answer3 = 'He is called "Bosco"';

document.getElementById("demo").innerHTML =

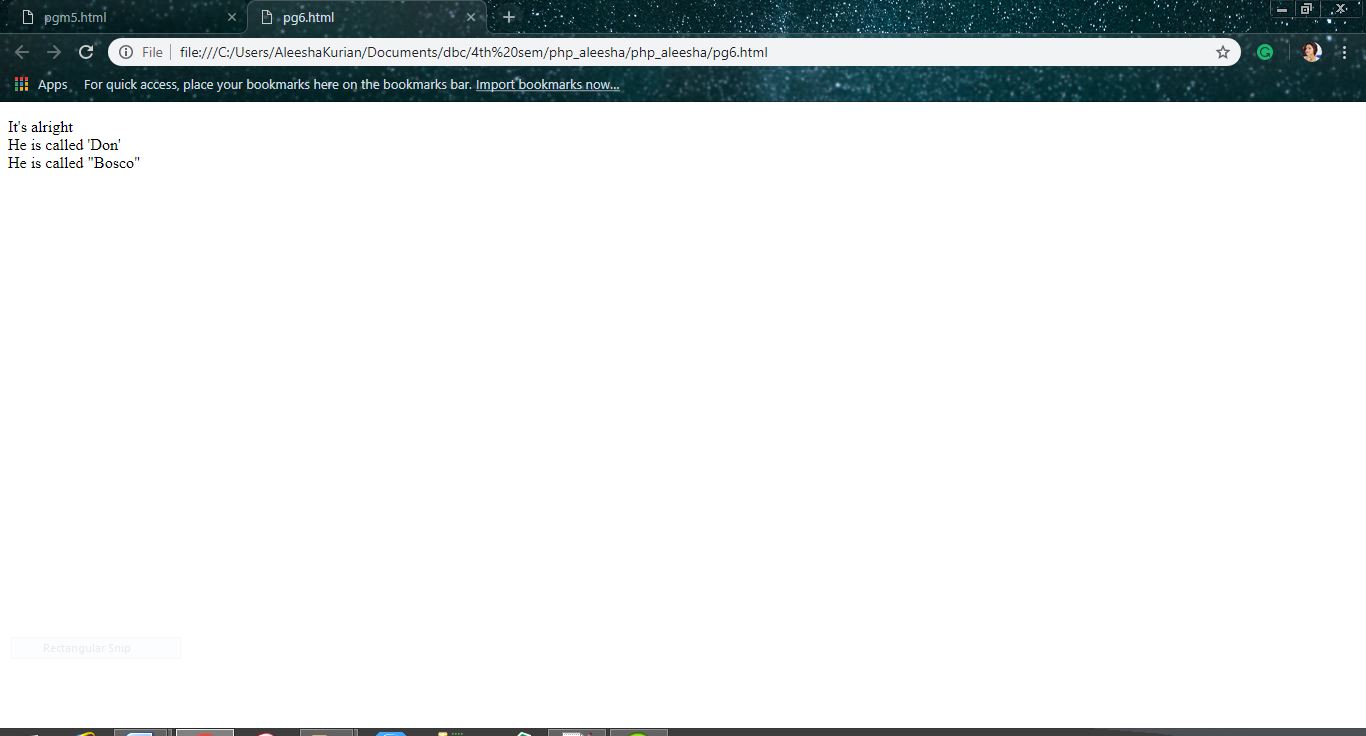
answer1 + "<br>" + answer2 + "<br>" + answer3;

</script>

</body>

</html>

**OUTPUT:**



**PROGRAM :7**

**AIM Program to find the position of the string.**

<!DOCTYPE html>

<html>

<body>

<p id="p1">Good morning locate 'friends' .</p>

<button onclick="myFunction()">Click</button>

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

<script>

function myFunction() {

var str = document.getElementById("p1").innerHTML;

var pos = str.lastIndexOf("friends");

document.getElementById("demo").innerHTML = pos;

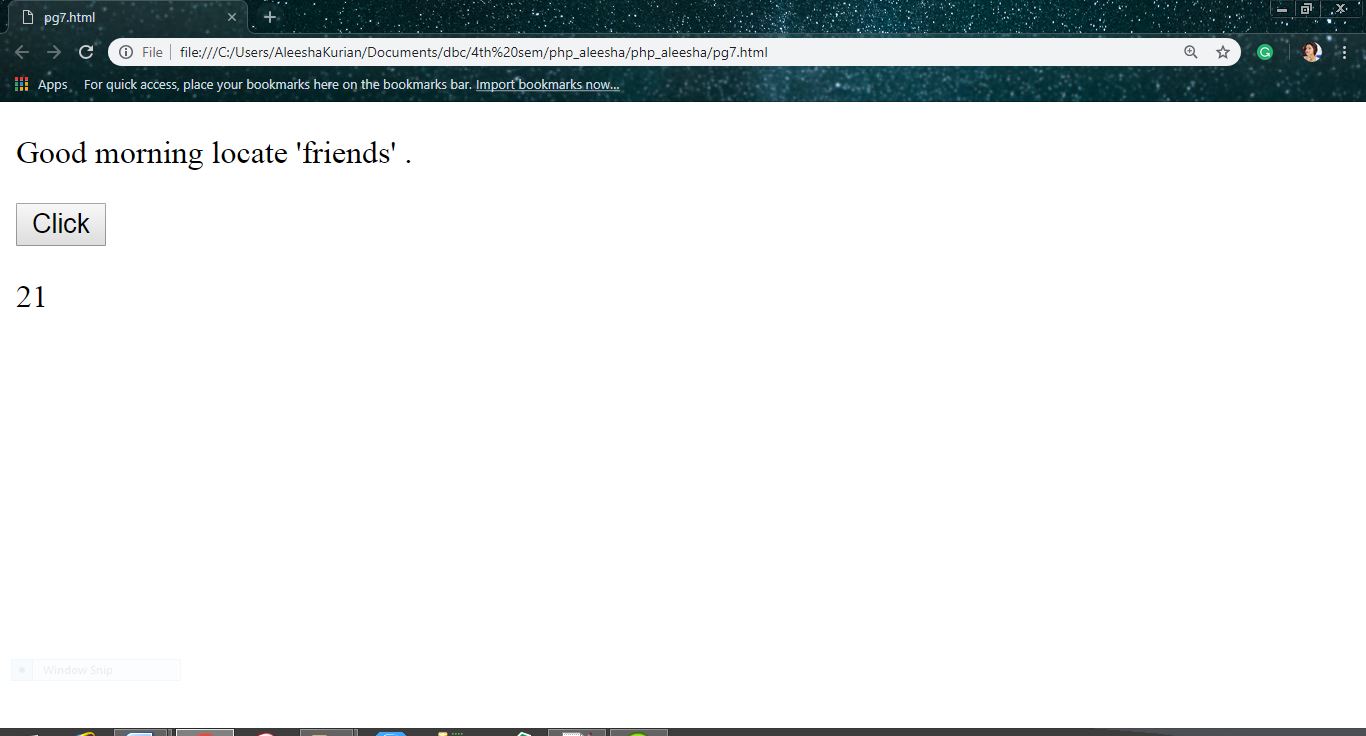
}

</script>

</body>

</html>

**OUTPUT:**



**PROGRAM :8**

**AIM Leading zeros can produce unexpected results.**

<!DOCTYPE html>

<html>

<body>

<h2>Leading zeros can produce unexpected results</h2>

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

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

<script>

document.getElementById("demo1").innerHTML = new Date("2018-7-12");

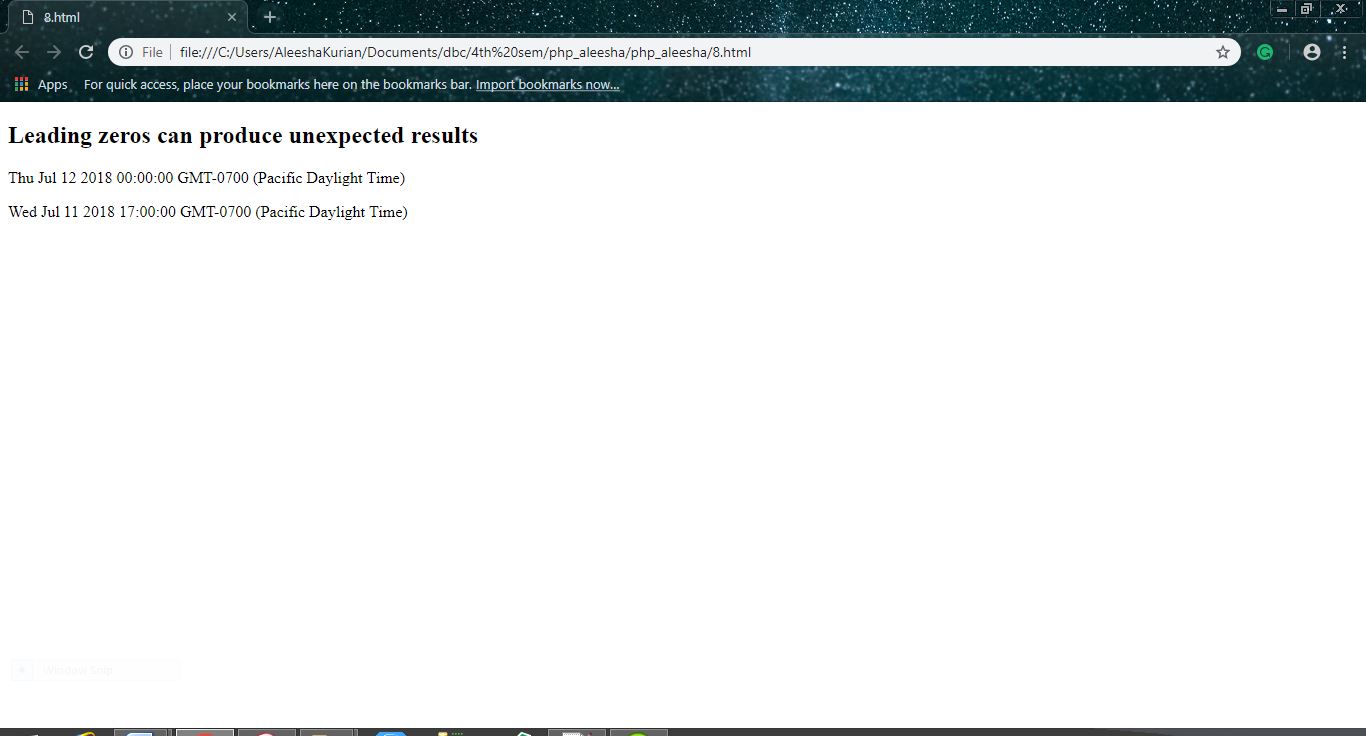
document.getElementById("demo2").innerHTML = new Date("2018-07-12");

</script>

</body>

</html>

**OUTPUT:**



**PROGRAM :9**

**AIM : Program to sorts an array alphabetically.**

<!DOCTYPE html>

<html>

<body>

<p>The sort() method sorts an array alphabetically.</p>

<button onclick="myFunction()">Click</button>

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

<script>

var month = ["january", "Februvary", "March", "April"];

document.getElementById("demo").innerHTML = fruits;

function myFunction() {

fruits.sort();

fruits.reverse();

document.getElementById("demo").innerHTML = month;

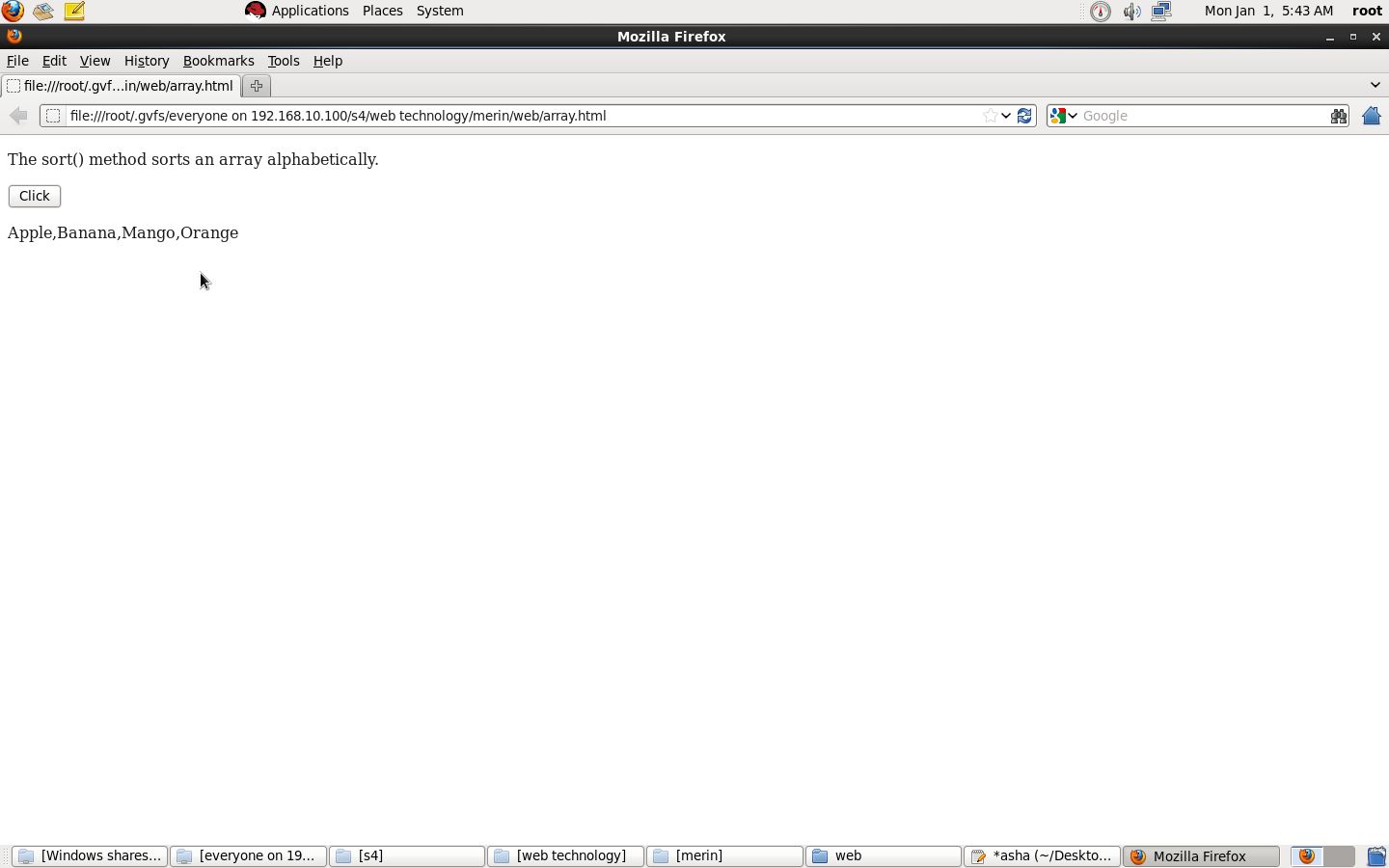
}

</script>

</body>

</html>

**OUTPUT:**

****

**PROGRAM :10**

**AIM : Click the button to demonstrate the prompt box**.

<!DOCTYPE html>

<html>

<body>

<p>Click the button to demonstrate the prompt box.</p>

<button onclick="myFunction()">Click</button>

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

<script>

function myFunction() {

var person = prompt("Please enter your name", "Anu Kurian");

if (person != null) {

document.getElementById("demo").innerHTML =

"Hello " + person + "! How are you today?";

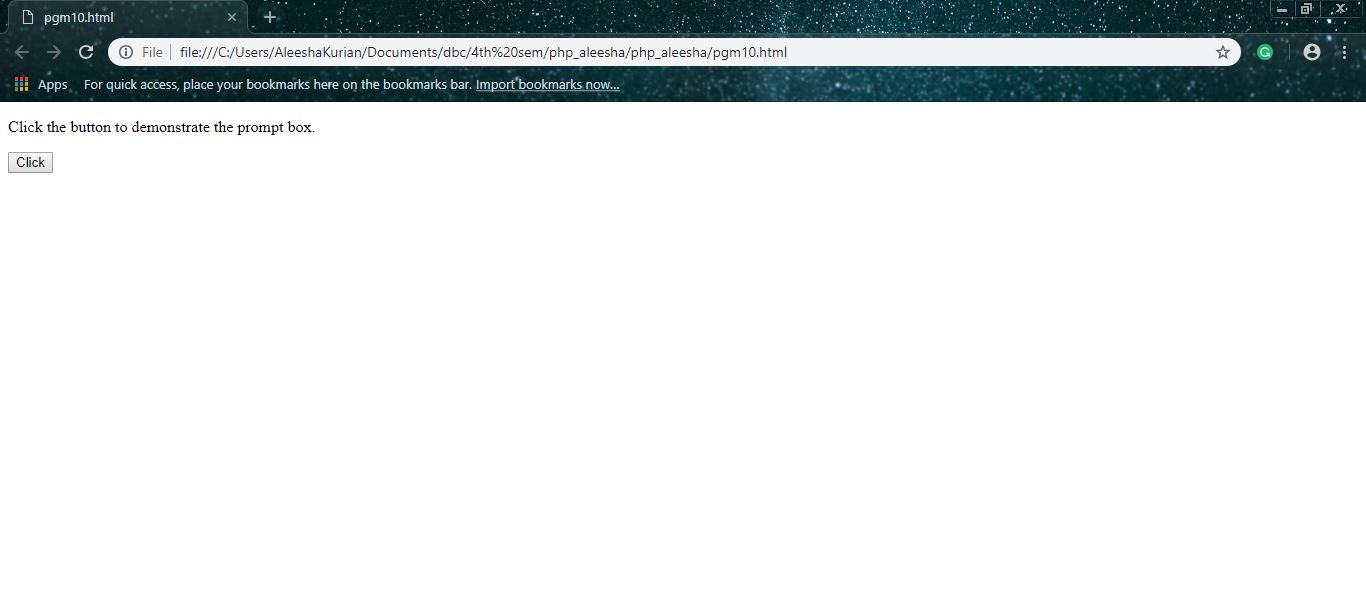
}

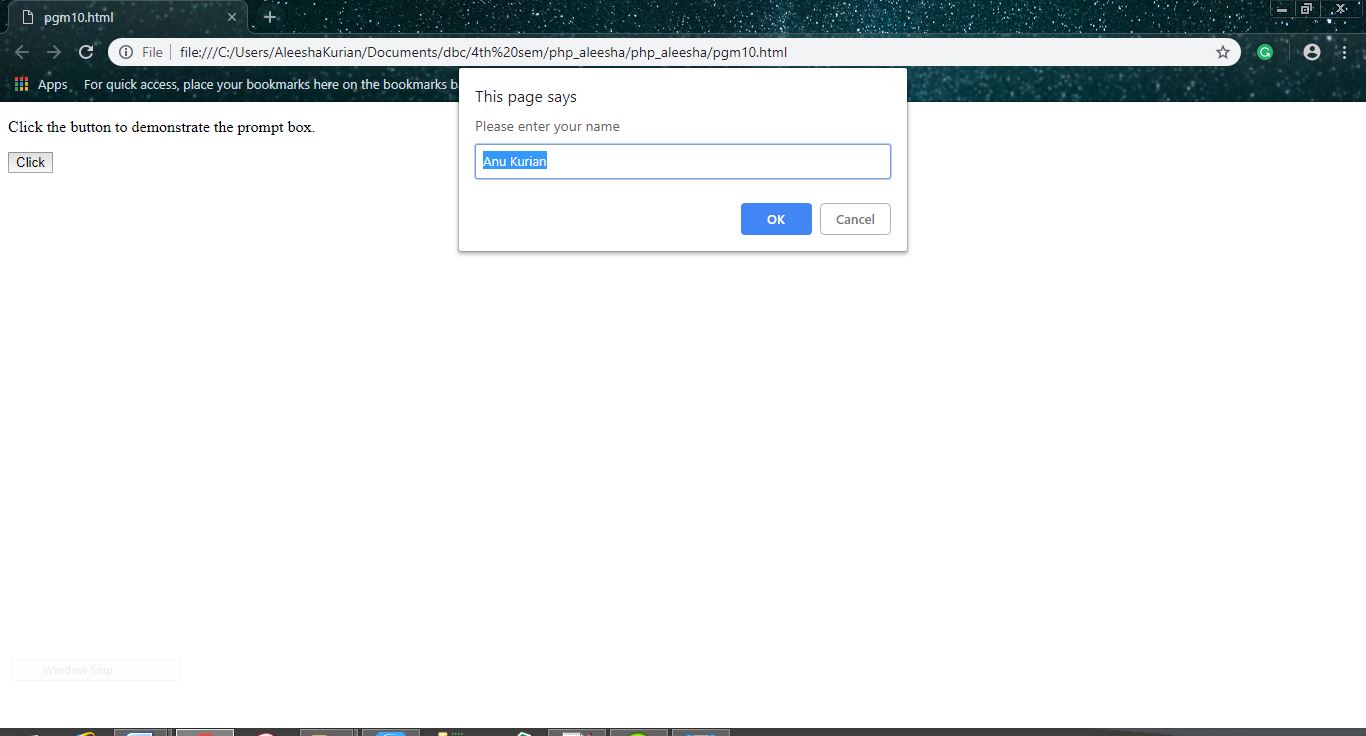
}

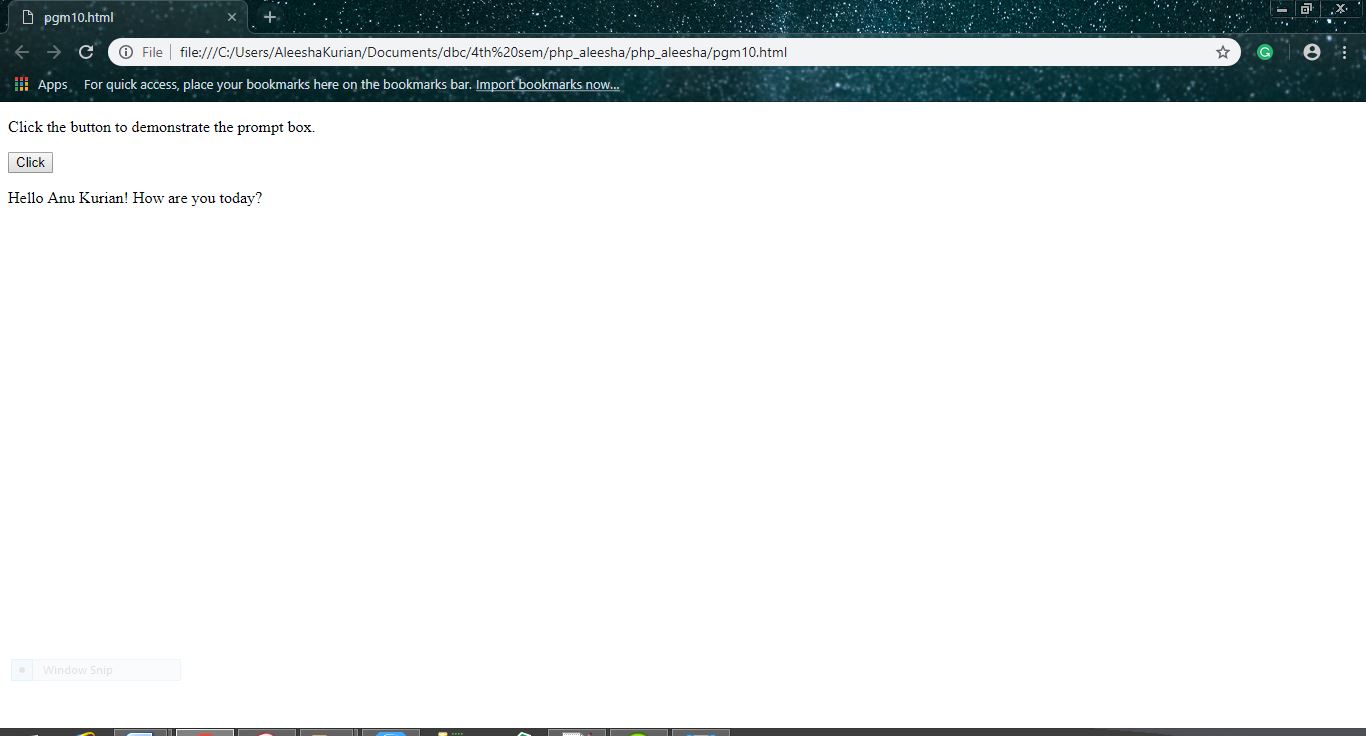
</script>

</body>

**OUTPUT:**







**PROGRAM :11**

**AIM : : By clicking a button the page will alert "hello" after 3 seconds.**

<!DOCTYPE html>

<html>

<body>

<p>Click the button. Wait 3 seconds, and the page will alert "Hello".</p>

<button onclick="setTimeout(myFunction, 3000);">Click</button>

<script>

function myFunction() {

alert('Hello');

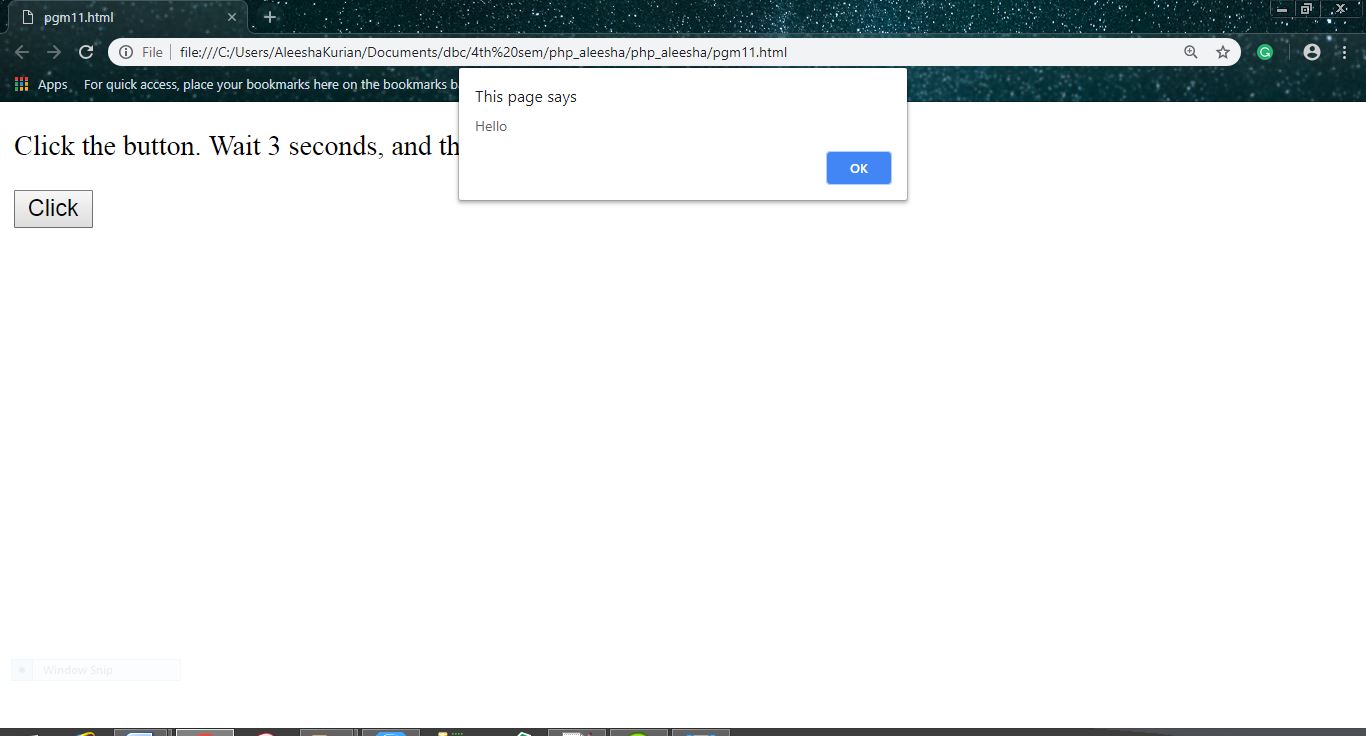
}

</script>

</body>

</html>

OUTPUT:

.

**PROGRAM :12**

**AIM : Program to print largest number among two numbers.**

<!DOCTYPE html>

<html>

<head>

<meta charset=utf-8 />

<title>Write a JavaScript program that accept two integers and display the larger</title>

</head>

<body>

</body>

</html>

<script>

var num1, num2;

num1 = window.prompt("Input the First integer", "0");

num2 = window.prompt("Input the second integer", "0");

if(parseInt(num1, 10) > parseInt(num2, 10))

{

document.write("The larger of "+ num1+ " and "+ num2+ " is "+ num1+ ".");

}

else

if(parseInt(num2, 10) > parseInt(num1, 10))

{

document.write("The larger of "+ num1+" and "+ num2+ " is "+ num2+ ".");

}

else

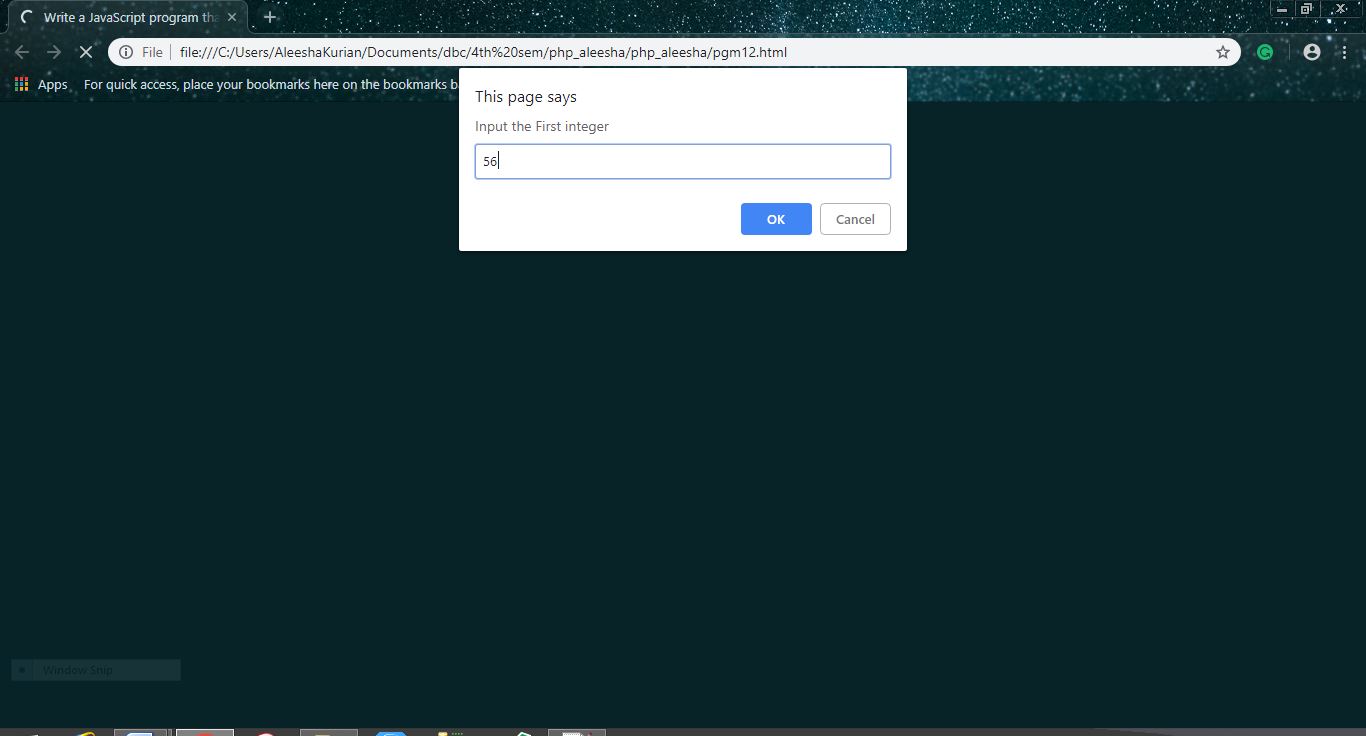
{

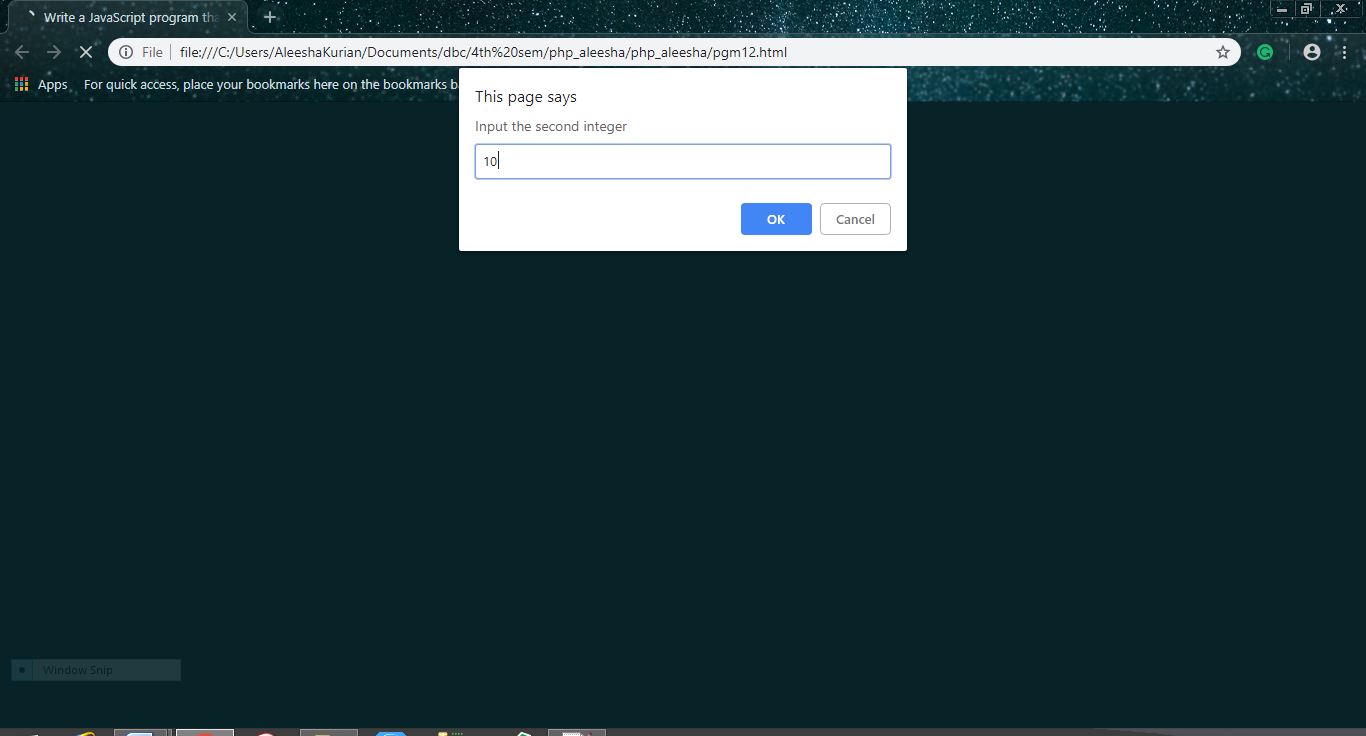
document.write("The values "+ num1+ " and "+num2+ " are equal.");

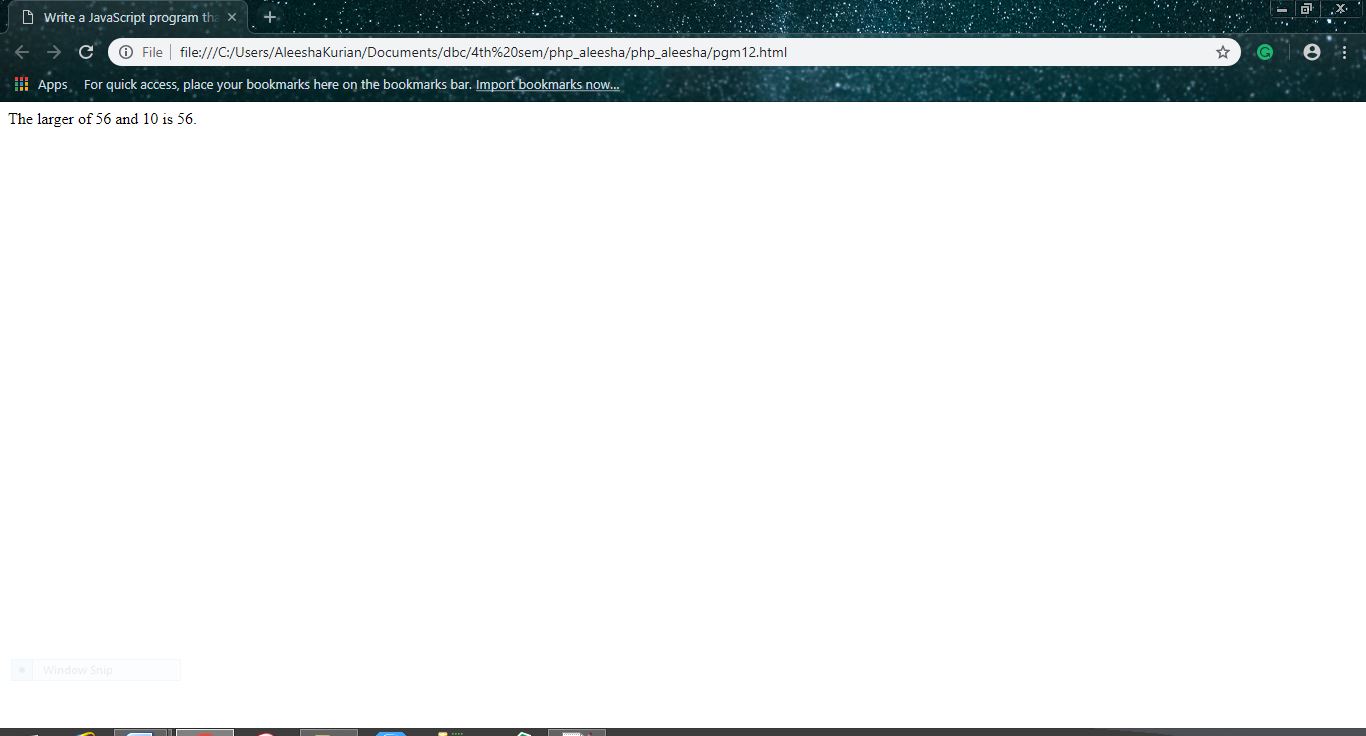
}

</script>

**OUTPUT:**

****

****

****

**PROGRAM :13**

**AIM : Program using switch statement.**

<html>

<head>

<script type="text/javascript">

var n=prompt("Enter a number between 1 and 7");

switch (n)

{

case (n="1"):

document.write("Sunday");

break;

case (n="2"):

document.write("Monday");

break;

case (n="3"):

document.write("Tuesday");

break;

case (n="4"):

document.write("Wednesday");

break;

case (n="5"):

document.write("Thursday");

break;

case (n="6"):

document.write("Friday");

break;

case (n="7"):

document.write("Saturday");

break;

default:

document.write("Invalid Weekday");

break

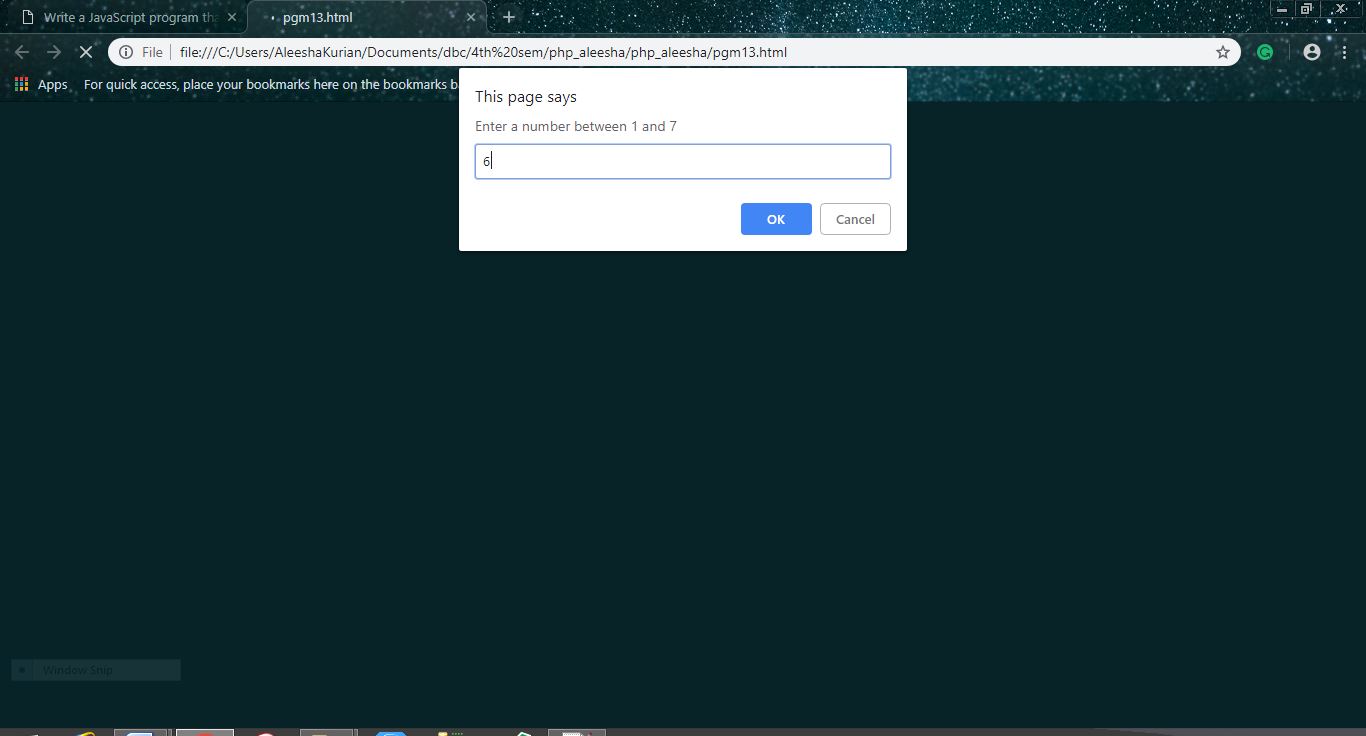
}

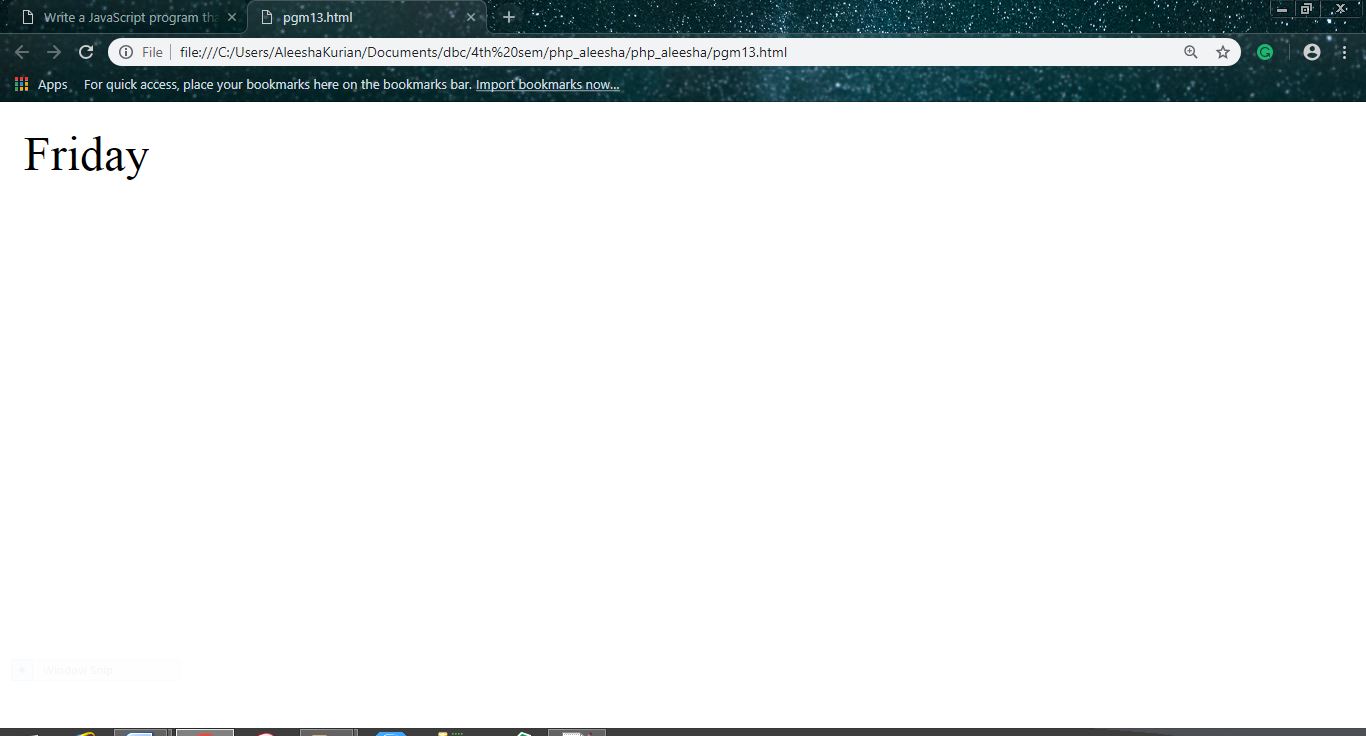
</script>

</head>

</html>

**OUTPUT:**

****



**PROGRAM :14**

**AIM : Program to display book details.**

**Book.php**

<html>

<body>

<center>

<form method="post" action="bookaction.php">

<table>

<tr>

<td>enter the name of book</td>

<td><input type="text" name="na"></td>

</tr>

<tr>

<td>enter the author of book</td>

<td><input type="text" name="auth"></td>

</tr>

<tr>

<td>enter the edition fo book</td>

<td><input type="text" name="edi">

</tr>

<tr>

<td>enter the publisher of book</td>

<td><input type="text" name="pub">

</tr>

<tr>

<td>enter the ISBN</td>

<td><input type="text" name="isbn"></td>

</tr>

<tr>

<td>enter the no of pages</td>

<td><input type="text" name="pno">

</tr>

<tr>

<td></td>

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

</table>

</form>

</center>

</body>

</html>

**Bookaction.php**

<html>

<body>

<center>

name: <?php echo$\_POST['na'];?><br>

author: <?php echo$\_POST['auth'];?><br>

edition: <?php echo$\_POST['edi'];?><br>

publisher: <?php echo$\_POST['pub'];?><br>

ISBN: <?php echo$\_POST['isbn'];?><br>

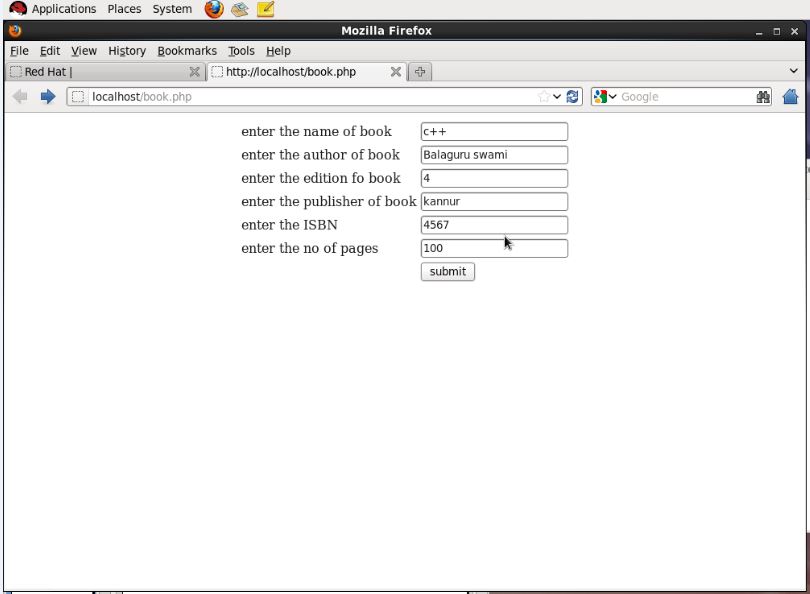
No of pages:<?php echo$\_POST['pno'];?><br>

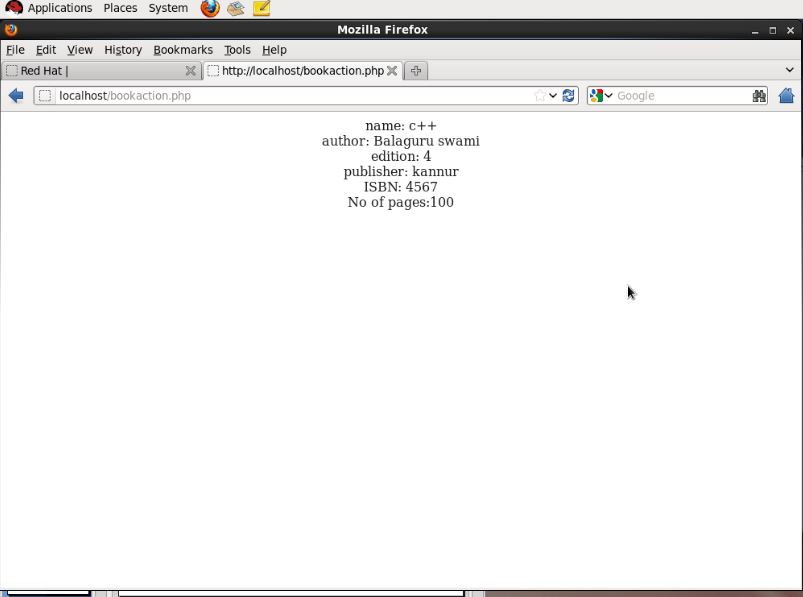
</center>

</body>

</html>

**OUTPUT:**





**PROGRAM :15**

**AIM : Progarm to display student details**

**Stud.php**

<html>

<body>

<form action="action.php" method="post">

<table>

<tr><td>Name:</td>

<td><input type="text" name="name"></td></tr>

<tr><td>Address</td>

<td><input type="textarea" name="add"></td></tr>

<tr><td>Gender:</td>

<td><input type="radio" name="gender" value="male">Male</td>

<td><input type="radio" name="gender" value="female">Female</td></tr>

<tr><td>Date of Birth:</td>

<td><input type="text" name="dob"></td></tr>

<tr><td>Course:</td>

<td><input type="text" name="course"></td>

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

</table>

</form>

</body>

</html>

**Action.php**

<html>

<body>

Welcome <?php echo $\_POST["name"]; ?><br>

Your address is: <?php echo $\_POST["add"]; ?><br>

Your gender is: <?php echo $\_POST["gender"]; ?><br>

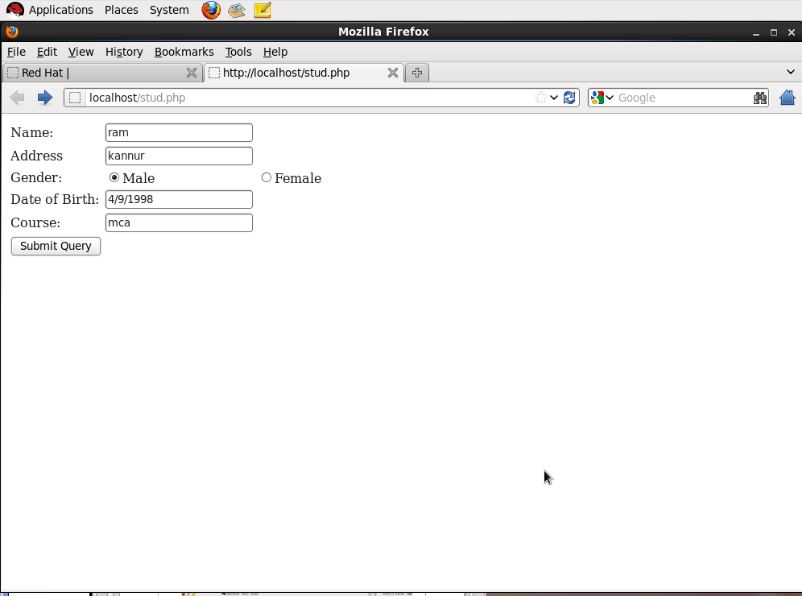
Your date of birth is: <?php echo $\_POST["dob"]; ?><br>

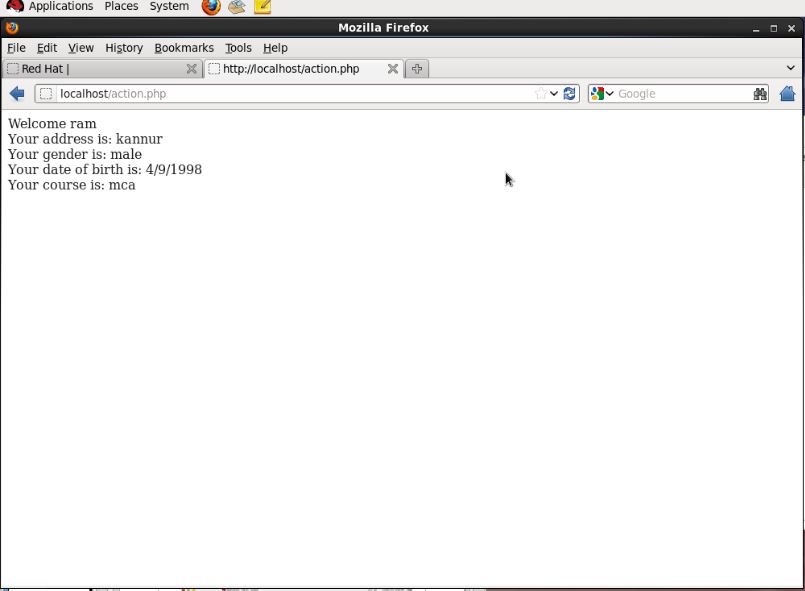
Your course is: <?php echo $\_POST["course"]; ?><br>

</body>

</html>

OUTPUT:





**PROGRAM :16**

**AIM: Program to check whether the given number is prime or not.**

<?php

function prime($a)

{

$s=2;

if($a % $s==0)

{

return 0;

}

else

return 1;

}

echo "The given number is 42 <br>";

$w=prime(42);

if($w==0)

echo " This number is not prime <br>";

else

echo "This number is prime <br>";

echo "The given number is 13 <br>";

$x=prime(13);

if($x==0)

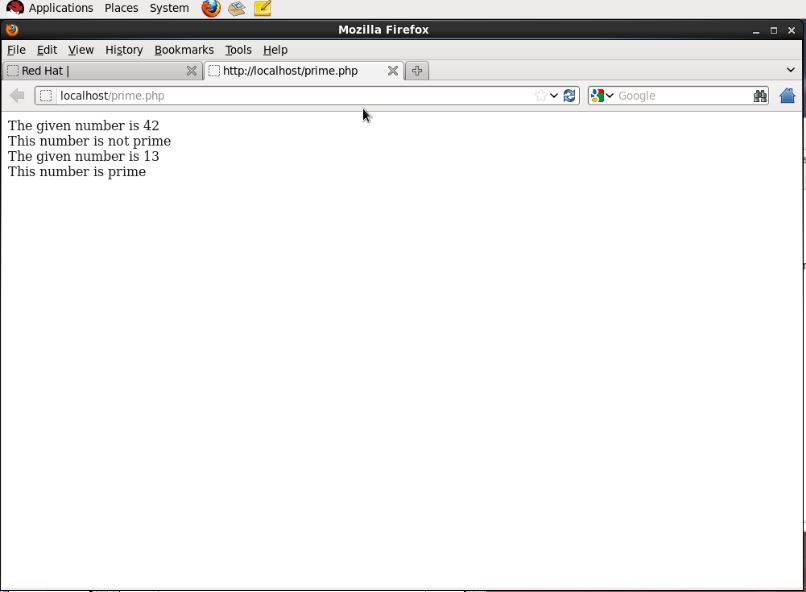
echo "This number is not prime <br>";

else

echo "This number is prime <br>";

?>

OUTPUT:



**PROGRAM :17**

**AIM: Program to sort the numbers.**

<?php

$num = array(22,10,4,0,3);

echo "The given numbers are :<br>";

for($i=0; $i < 5; $i++)

echo $num[$i]."<br>";

sort($num);

echo "<br>Numbers in ascending order"."<br>";

for($i=0; $i < 5; $i++)

echo $num[$i]."<br>";

sort($num);

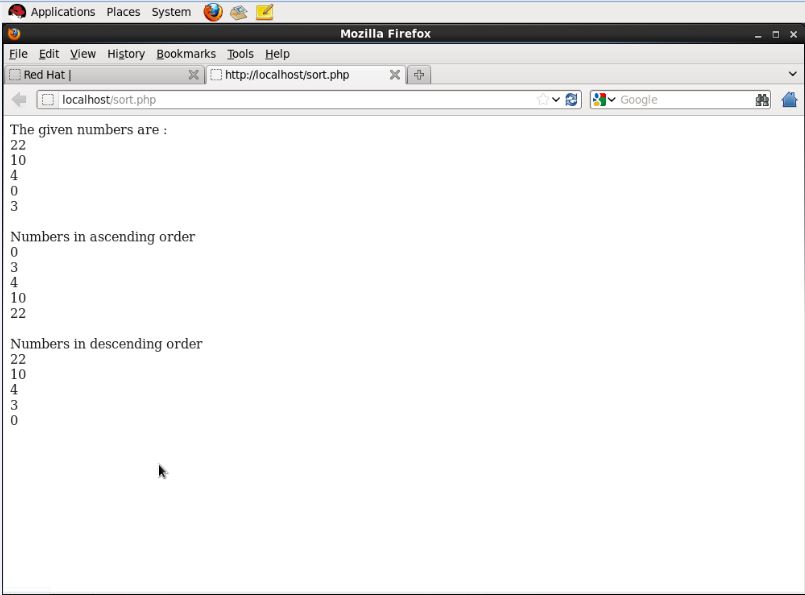
echo "<br>Numbers in descending order";

for($i=5; $i >= 0; $i--)

echo $num[$i]."<br>";

?>

OUTPUT:



**PROGRAM :18**

**AIM:Program to join two strings using implode.**

<?php

$array = array("Don","Bosco");

$a = implode(' ',$array);

echo "The strings are : <br>";

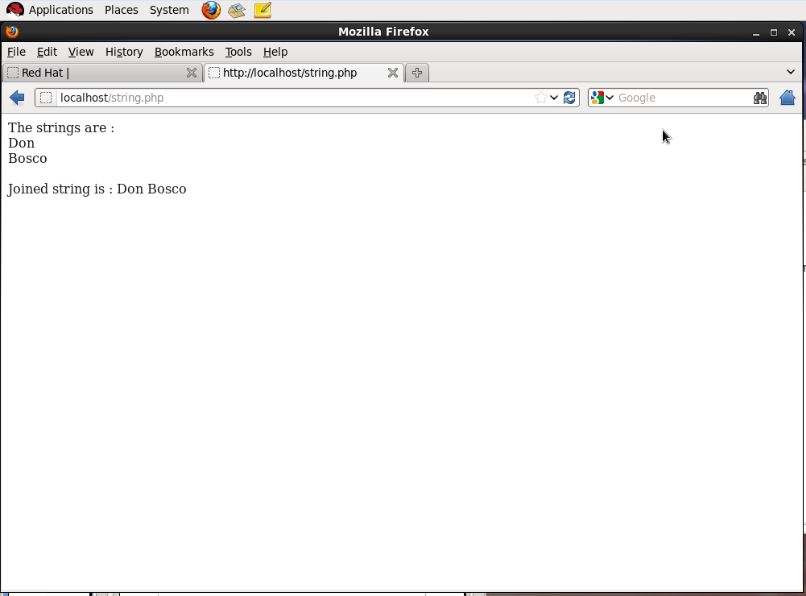
for($i=0; $i < 2; $i++)

echo $array[$i]."<br>";

echo "<br>Joined string is : ".$a;

?>

**OUTPUT:**



**PROGRAM :19**

**AIM: Program to start a session**

<?php

//Start the session

session\_start();

?>

<!DOCTYPE html>

<html>

<body>

<?php

//Set the session variable

$\_SESSION["favcolor"]="green";

$\_SESSION["favanimal"]="cat";

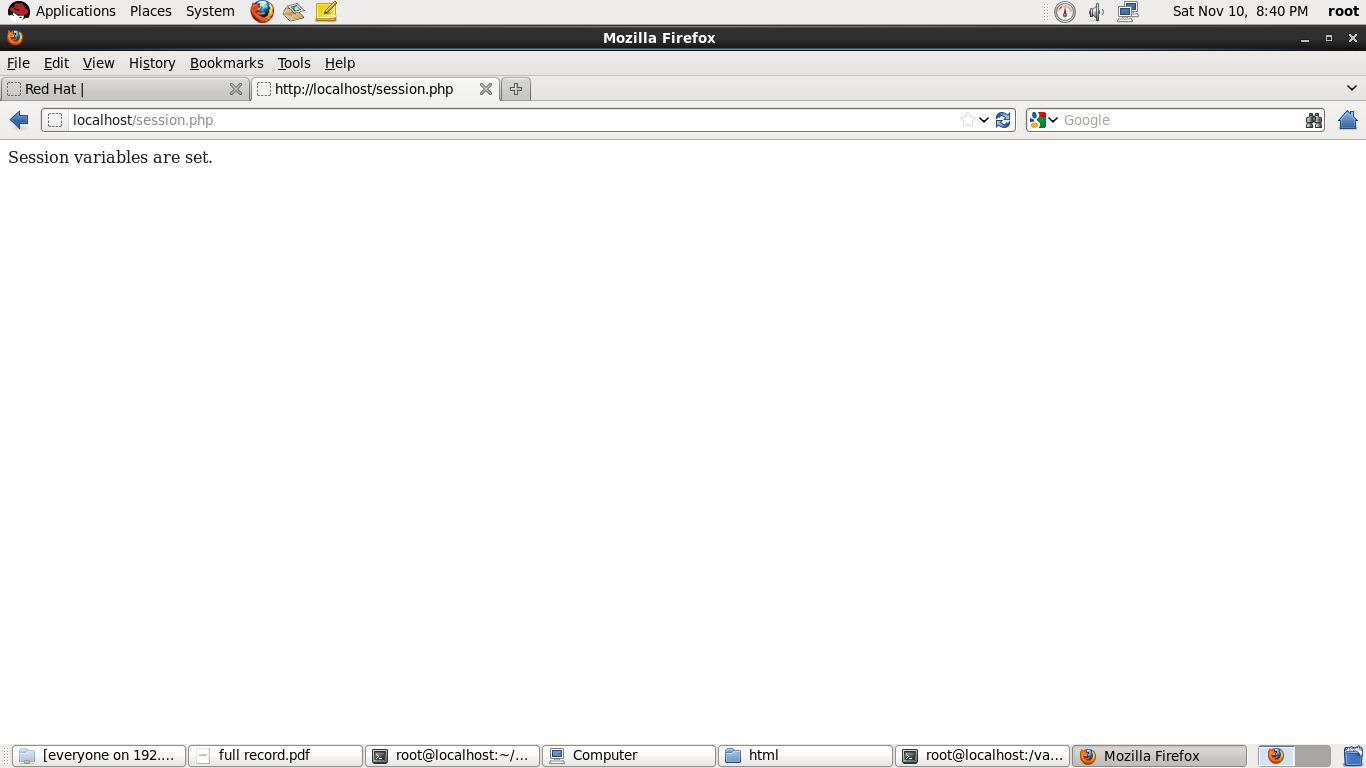
echo "Session variables are set.";

?>

</body>

</html>

**OUTPUT:**

****

**PROGRAM :20**

**AIM:Program to destroy a session .**

<?php

session\_start();

?>

<!DOCTYPE html>

<html>

<body>

<?php

//remove all session variables

session\_unset();

//destroy the session

session\_destroy();

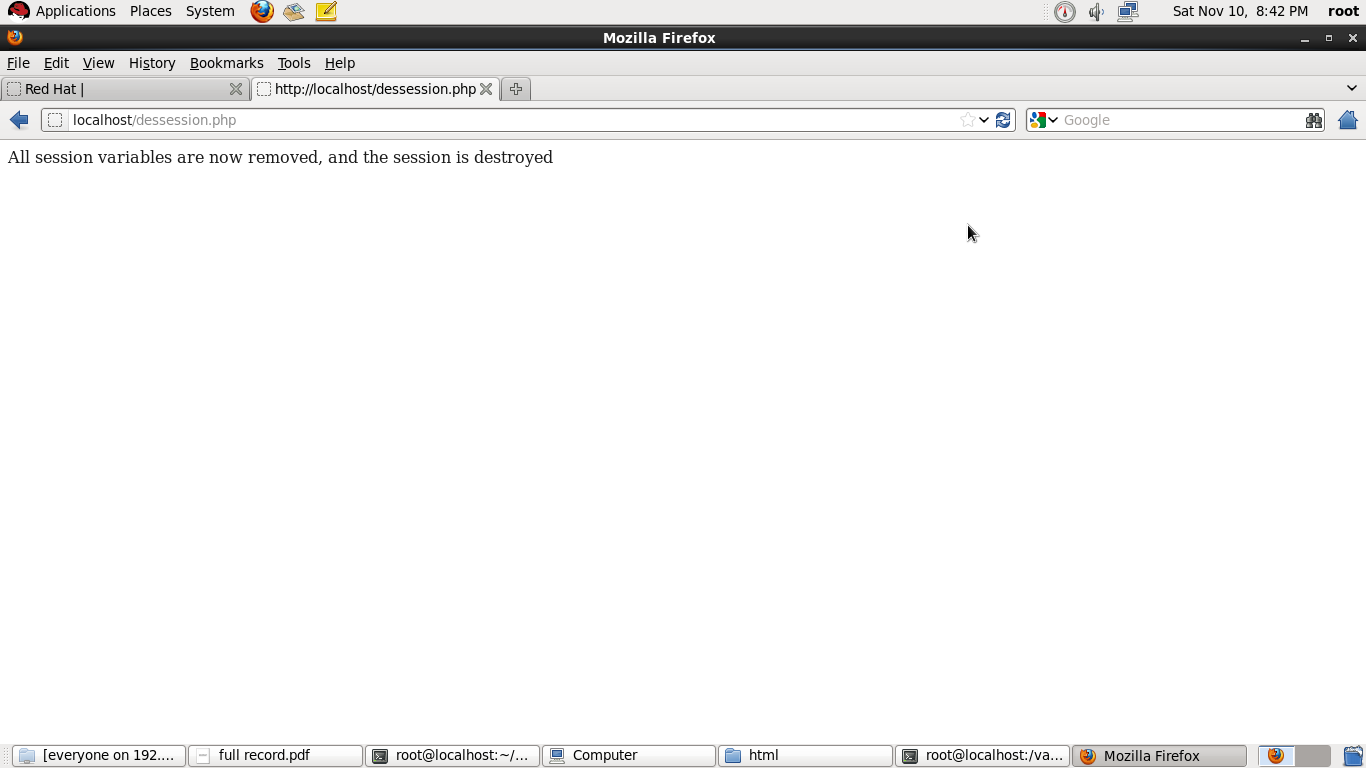
echo"All session variables are now removed, and the session is destroyed";

?>

</body>

</html>

**OUTPUT:**

****

**PROGRAM :21**

**AIM:** [**Program to register and login in a student using database.**](http://www.makeitsimple.co.in/PHP_loginexmp.php)

**Register.html**

<html>

<form method="post" action="reg\_action.php" >

<center>

<big><big>REGISTER

<br>

<br>

</big></big>

<table width:="50%">

<tbody>

<tr>

<td>ID : <br>

</td>

<td><input name="id" type="text"><br>

</td>

</tr>

<tr>

<td>Full Name : <br>

</td>

<td><input name="name" type="text"><br>

</td>

</tr>

<tr>

<td>Address<br></td>

<td><textarea cols="30" rows="3"

name="address"></textarea><br></td></tr>

<tr>

<td>Phone : <br>

</td>

<td><input name="phone" type="text" id="phone">

<br>

</td>

</tr>

<tr>

<td>Gender : <br>

</td>

<td><div align="justify">Female

<input name="gender" type="radio" value="Female" checked >

<br> Male

<input name="gender" type="radio" value="male" >

</div></td>

</tr>

<tr>

<td>Age<br></td>

<td><input name="age" type="text" id="age">

<br>

</td>

</tr>

<tr>

<td>Usename<br></td>

<td><input name="user" type="text">

<br>

</td>

</tr>

<tr>

<td>Password<br></td>

<td><input name="pass" type="password">

<br>

</td>

</tr>

</table>

<br>

<br>

<input name="submit" value="ADD" type="submit">&nbsp; &nbsp; <input

name="reset" value="RESET" type="reset">

</form>

**Reg\_action.php**

<?php

$id=$\_POST['id'];

$name=$\_POST['name'];

$address=$\_POST['address'];

$phone=$\_POST['phone'];

$gender=$\_POST['gender'];

$age=$\_POST['age'];

$user=$\_POST['user'];

$pass=$\_POST['pass'];

$con=mysql\_connect("localhost","root","root");

$db=mysql\_select\_db("college",$con);

$str="insert into student values('$id','$name','$address','$phone','$gender','$age','$user','$pass')";

$res=mysql\_query($str)or die(mysql\_error());

if($res>=0)

{

echo'<br><br><b>Successfully Registered !!<br>';

}

else

{

echo'<br><br><b>no !!<br>';

}

?>

**Login.php**

<html>

<body>

<center><b><font size="5">LOGIN PAGE</font></b></center>

<br>

<br>

<form method="post" action="login\_action.php">

<center>

<table width="30%">

<tbody>

<tr>

<td style="text-align: left;"><span

class="style2"><b>USERNAME</b></span><br></td>

<td><input name="username" type="VARCHAR"><br>

</td>

</tr>

<br>

<tr>

<td style="text-align: left;"><strong>PASSWORD</strong><br></td>

<td><input name="password" type="password"><br>

</td>

</tr>

</tbody>

</table>

<br>

<br>

<input value="LOGIN" name="submit" type="submit"><br>

</form>

</big></big></div>

</body>

</html>

**Login\_actio.php**

<?php

$username=$\_POST['username'];

$password=$\_POST['password'];

$con=@mysql\_connect("localhost","root","root") or die(mysql\_error());

$db=@mysql\_select\_db("college",$con)or die(mysql\_error());

$sql="SELECT \* FROM student WHERE username='$username' and password='$password'";

$result=mysql\_query($sql);

$count=mysql\_num\_rows($result);

if($count==1)

{

session\_register("username");

session\_register("password");

header("location:view.php");

}

else {

echo "Wrong Username or Password";

}

ob\_end\_flush();

?>

**View.php**

<html>

<body>

<?php

$dbhost = 'localhost';

$dbuser = 'root';

$dbpass = 'root';

$conn = mysql\_connect($dbhost, $dbuser, $dbpass);

if(! $conn )

{

die('Could not connect: ' . mysql\_error());

}

$sql = 'SELECT \* from student';

mysql\_select\_db('college');

$retval = mysql\_query( $sql, $conn );

if(! $retval )

{

die('Could not get data: ' . mysql\_error());

}

while($row = mysql\_fetch\_array($retval, MYSQL\_ASSOC))

{

echo "ID :{$row['id']} <br> ".

"NAME

: {$row['name']} <br> ".

"ADDRESS: {$row['address']} <br> ".

"GENDER : {$row['gender']} <br> ".

"AGE : {$row['age']} <br> ".

"PHONE NUMBER : {$row['phone']} <br> ".

"--------------------------------<br>";

}

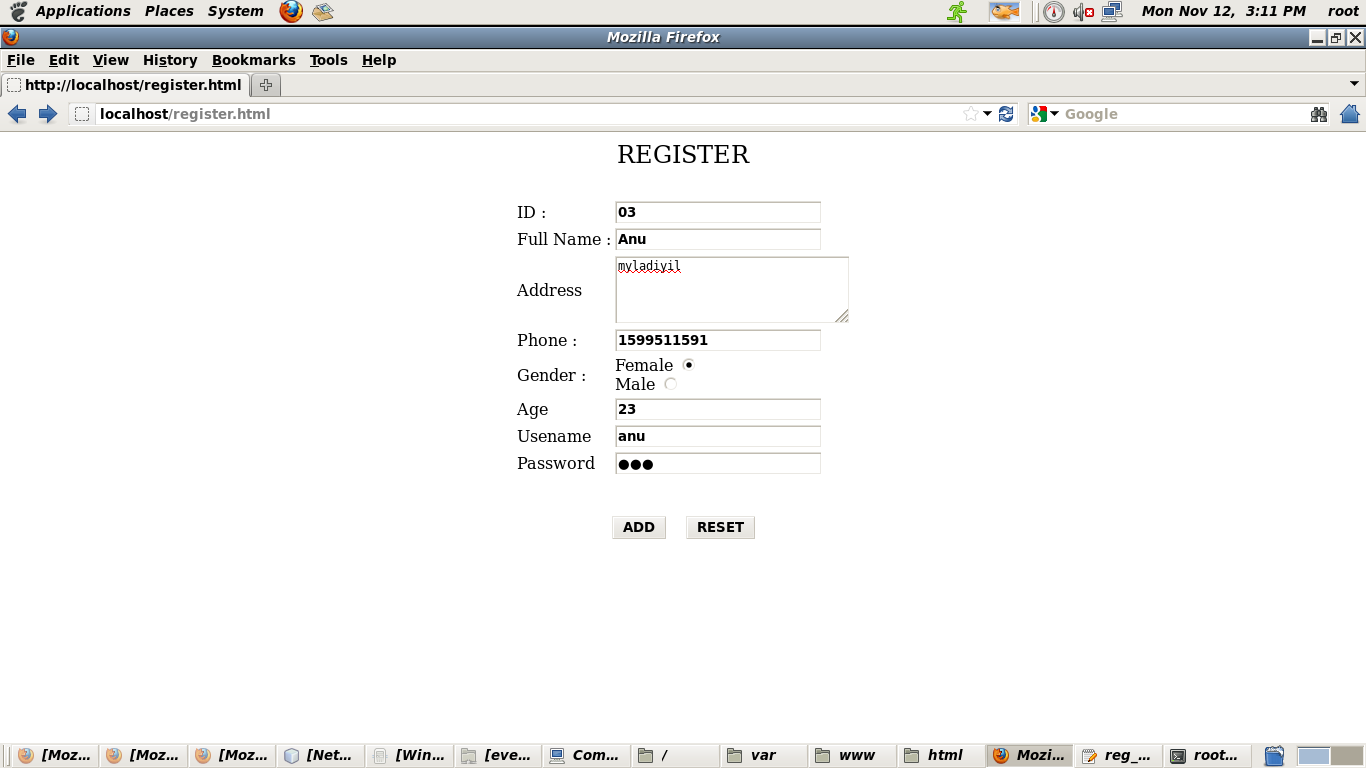
mysql\_close($conn);

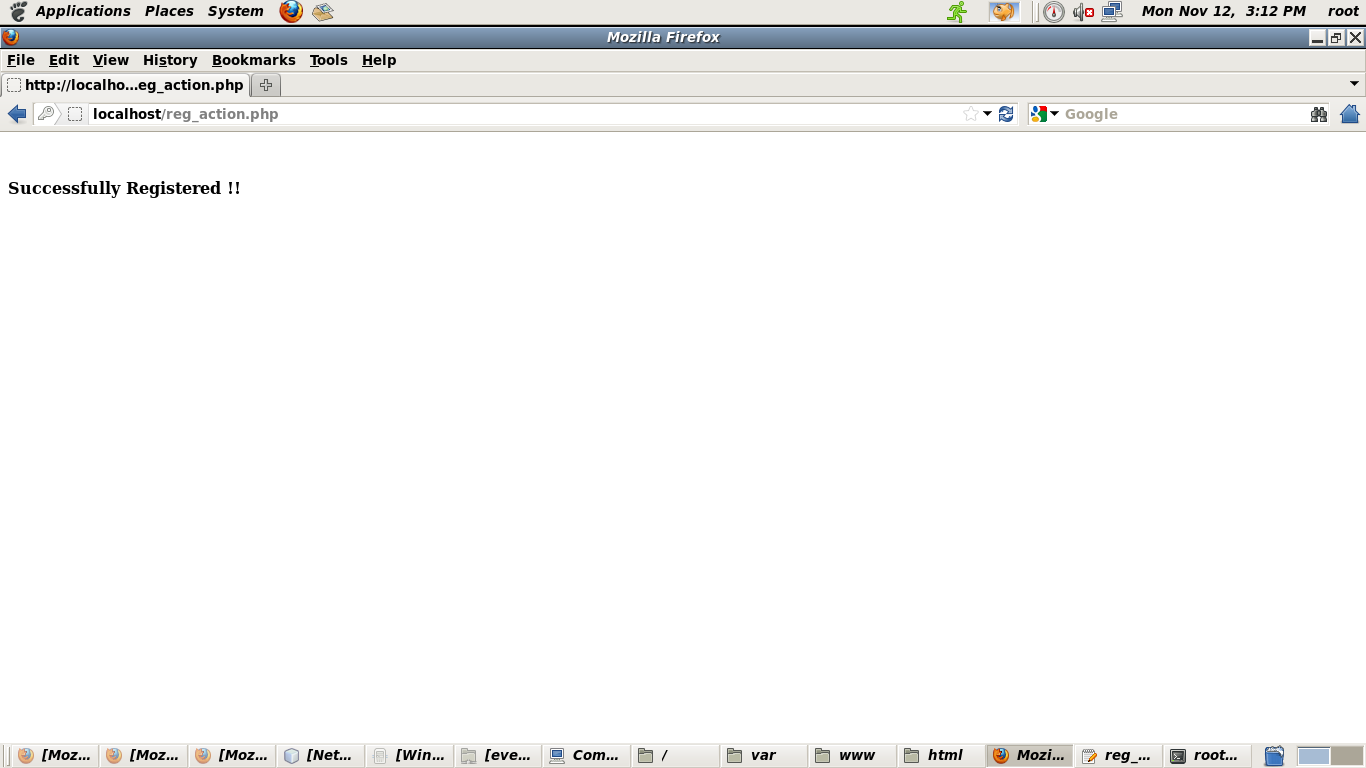
?>

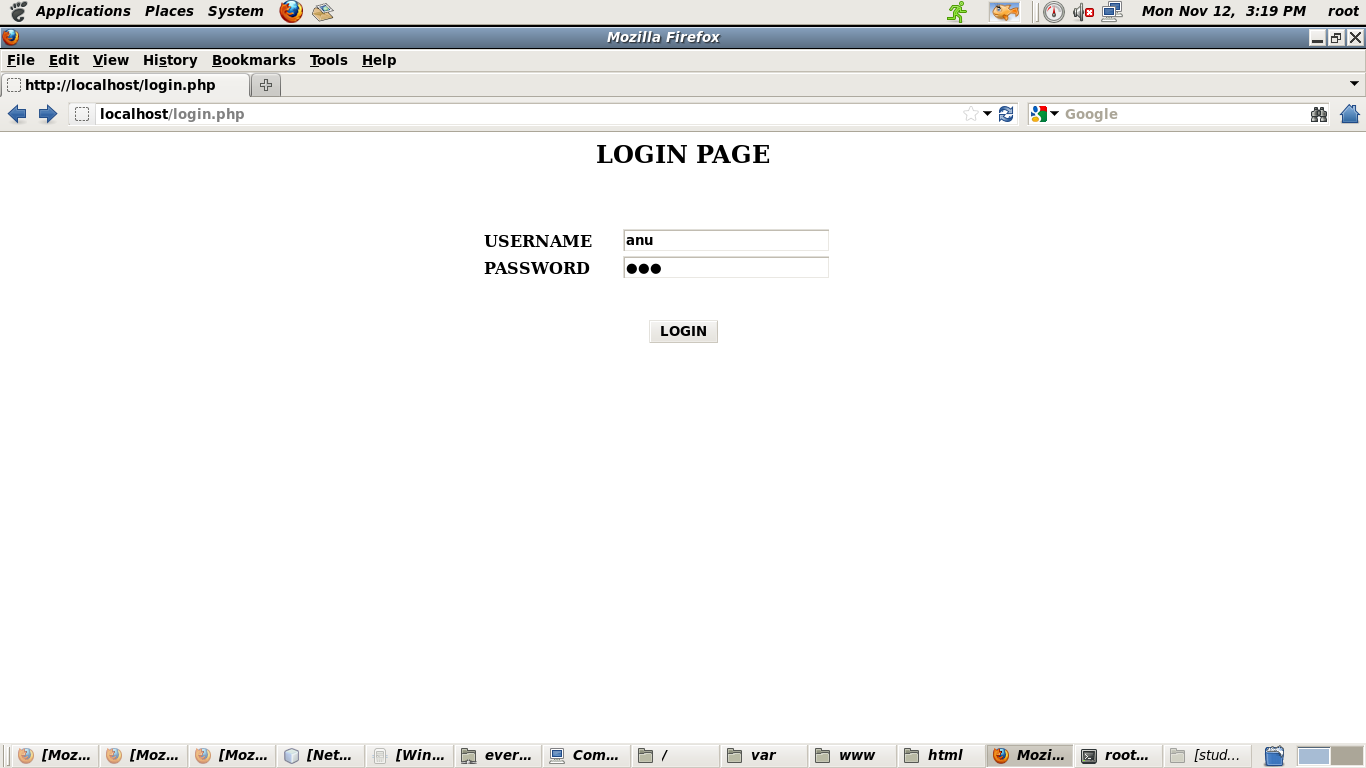
</body>

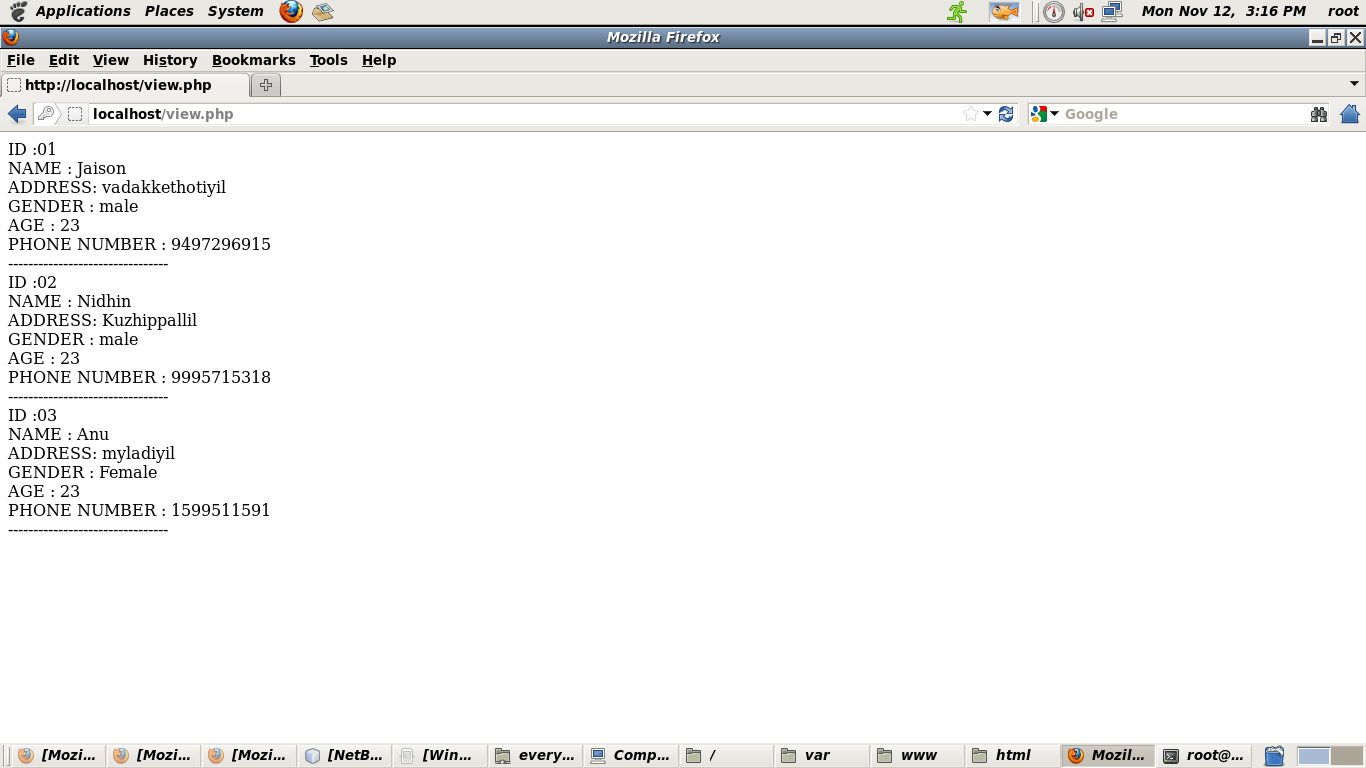
</html>

OUTPUT:

****

****

****

****

**PROGRAM :22**

**AIM:** **Program for employee registration and view details using database.**

**Register.php**

<html>

<form method="post" action="employee\_action.php" >

<center>

<big><big>REGISTER

<br>

<br>

</big></big>

<table width:="50%">

<tbody>

<tr>

<td>ID : <br>

</td>

<td><input name="id" type="text"><br>

</td>

</tr>

<tr>

<td>Full Name : <br>

</td>

<td><input name="name" type="text"><br>

</td>

</tr>

<tr>

<td>Address<br></td>

<td><textarea cols="30" rows="3"

name="address"></textarea><br></td></tr>

<tr>

<td>Phone : <br>

</td>

<td><input name="phone" type="text" id="phone">

<br>

</td>

</tr>

<tr>

<td>Gender : <br>

</td>

<td><div align="justify">Female

<input name="gender" type="radio" value="Female" checked >

<br> Male

<input name="gender" type="radio" value="male" >

</div></td>

</tr>

<tr>

<td>Age<br></td>

<td><input name="age" type="text" id="age">

<br>

</td>

</tr>

<tr>

<td>Department<br></td>

<td><input name="dept" type="text" id="age">

<br>

</td>

</tr>

<tr>

<td>Usename<br></td>

<td><input name="user" type="text">

<br>

</td>

</tr>

<tr>

<td>Password<br></td>

<td><input name="pass" type="password">

<br>

</td>

</tr>

</table>

<br>

<br>

<input name="submit" value="ADD" type="submit">&nbsp; &nbsp; <input

name="reset" value="RESET" type="reset">

</form>

**Employee\_action.php**

<?php

$id=$\_POST['id'];

$name=$\_POST['name'];

$address=$\_POST['address'];

$phone=$\_POST['phone'];

$gender=$\_POST['gender'];

$age=$\_POST['age'];

$dept=$\_POST['dept'];

$user=$\_POST['user'];

$pass=$\_POST['pass'];

$con=mysql\_connect("localhost","root","root");

$db=mysql\_select\_db("college",$con);

$str="insert into employee values('$id','$name','$address','$phone','$gender','$age','$dept','$user','$pass')";

$res=mysql\_query($str)or die(mysql\_error());

if($res>=0)

{

echo'<br><br><b>Successfully Registered !!<br>';

}

else

{

echo'<br><br><b>no !!<br>';

}

?>

**Login.php**

<html>

<body>

<center><b><font size="5">LOGIN PAGE</font></b></center>

<br>

<br>

<form method="post" action="login\_action.php">

<center>

<table width="30%">

<tbody>

<tr>

<td style="text-align: left;"><span

class="style2"><b>USERNAME</b></span><br></td>

<td><input name="username" type="VARCHAR"><br>

</td>

</tr>

<br>

<tr>

<td style="text-align: left;"><strong>PASSWORD</strong><br></td>

<td><input name="password" type="password"><br>

</td>

</tr>

</tbody>

</table>

<br>

<br>

<input value="LOGIN" name="submit" type="submit"><br>

</form>

</big></big></div>

</body>

</html>

**Login\_action.php**

<?php

$username=$\_POST['username'];

$password=$\_POST['password'];

$con=@mysql\_connect("localhost","root","root") or die(mysql\_error());

$db=@mysql\_select\_db("college",$con)or die(mysql\_error());

$sql="SELECT \* FROM employee WHERE username='$username' and password='$password'";

$result=mysql\_query($sql);

$count=mysql\_num\_rows($result);

if($count==1)

{

session\_register("username");

session\_register("password");

header("location:view.php");

}

else {

echo "Wrong Username or Password";

}

ob\_end\_flush();

?>

**View.php**

<html>

<body>

<?php

$dbhost = 'localhost';

$dbuser = 'root';

$dbpass = 'root';

$conn = mysql\_connect($dbhost, $dbuser, $dbpass);

if(! $conn )

{

die('Could not connect: ' . mysql\_error());

}

$sql = 'SELECT \* from employee';

mysql\_select\_db('college');

$retval = mysql\_query( $sql, $conn );

if(! $retval )

{

die('Could not get data: ' . mysql\_error());

}

while($row = mysql\_fetch\_array($retval, MYSQL\_ASSOC))

{

echo "ID :{$row['id']} <br> ".

"NAME

: {$row['name']} <br> ".

"ADDRESS: {$row['address']} <br> ".

"GENDER : {$row['gender']} <br> ".

"AGE : {$row['age']} <br> ".

"DEPARTMENT :{$row['dept']}<br>".

"PHONE NUMBER : {$row['phone']} <br> ".

"--------------------------------<br>";

}

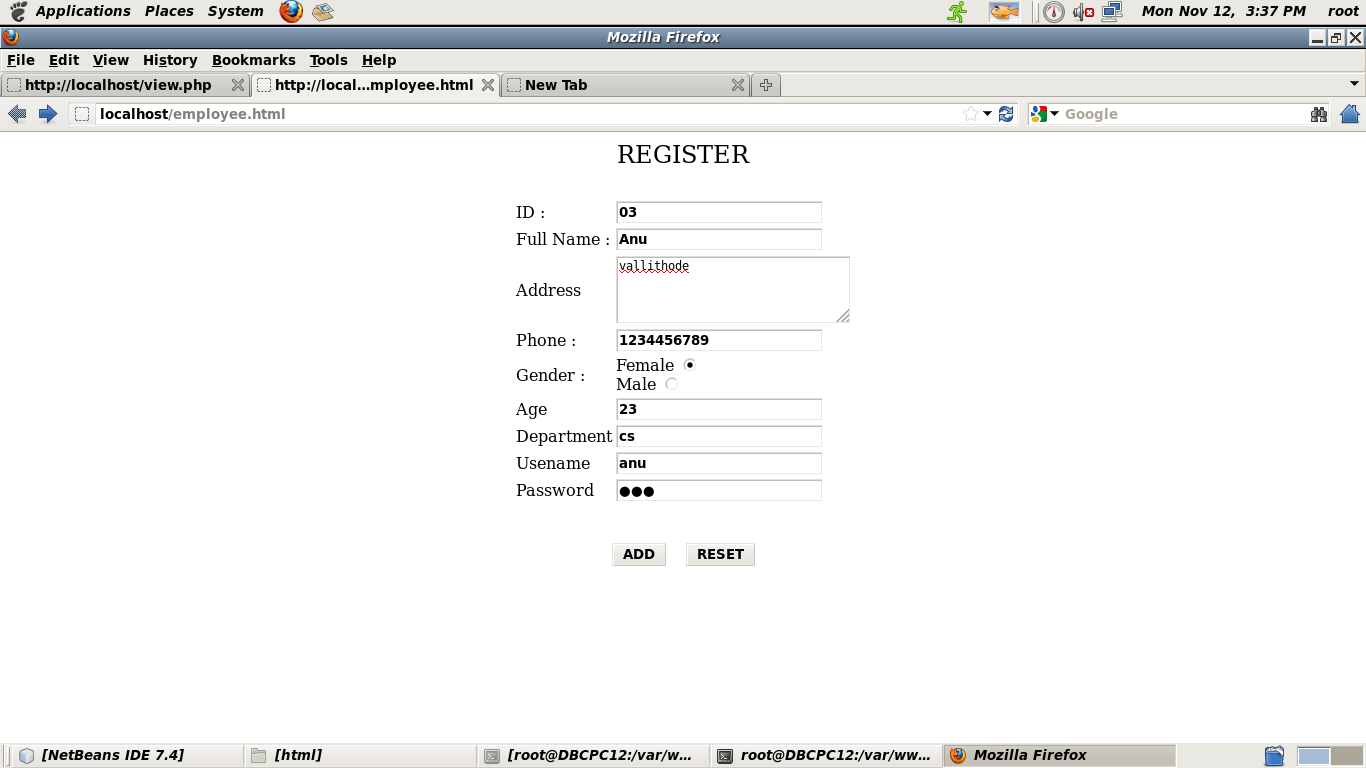
mysql\_close($conn);

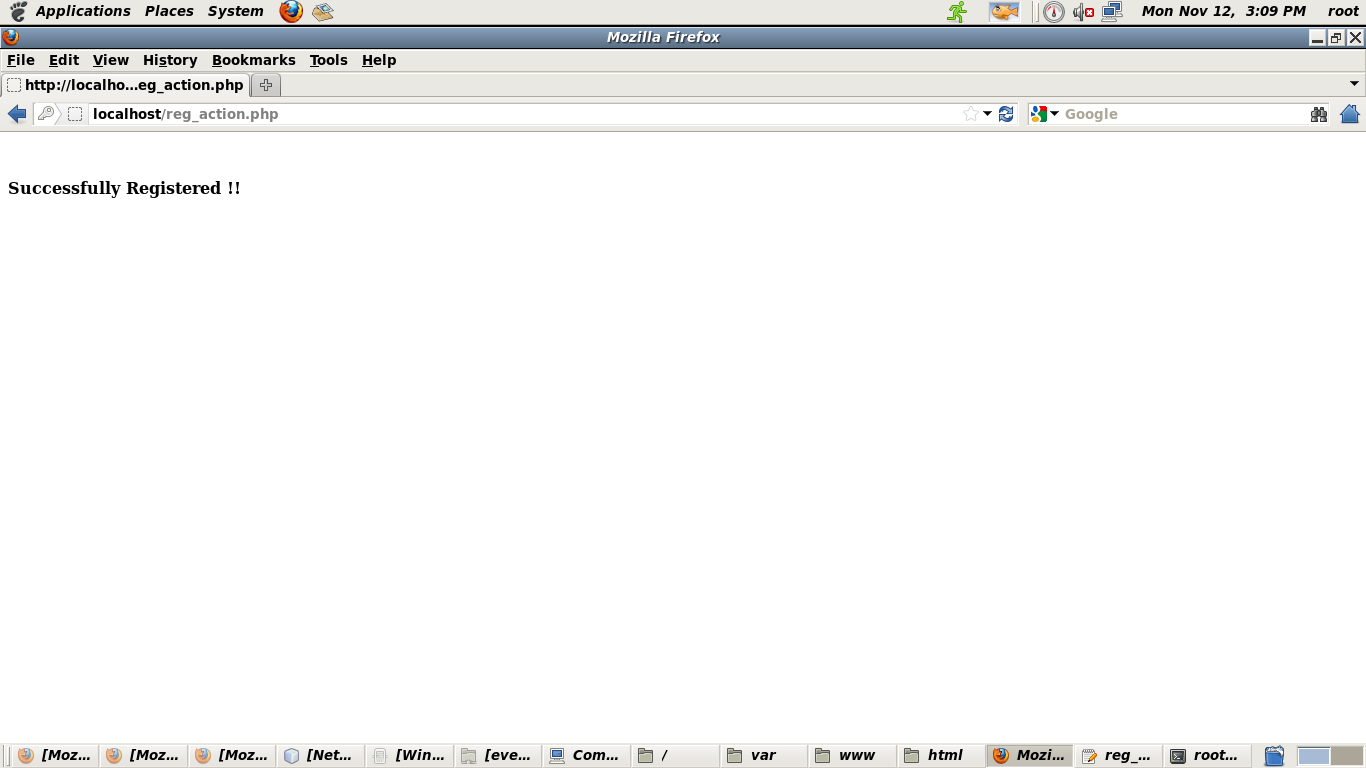
?>

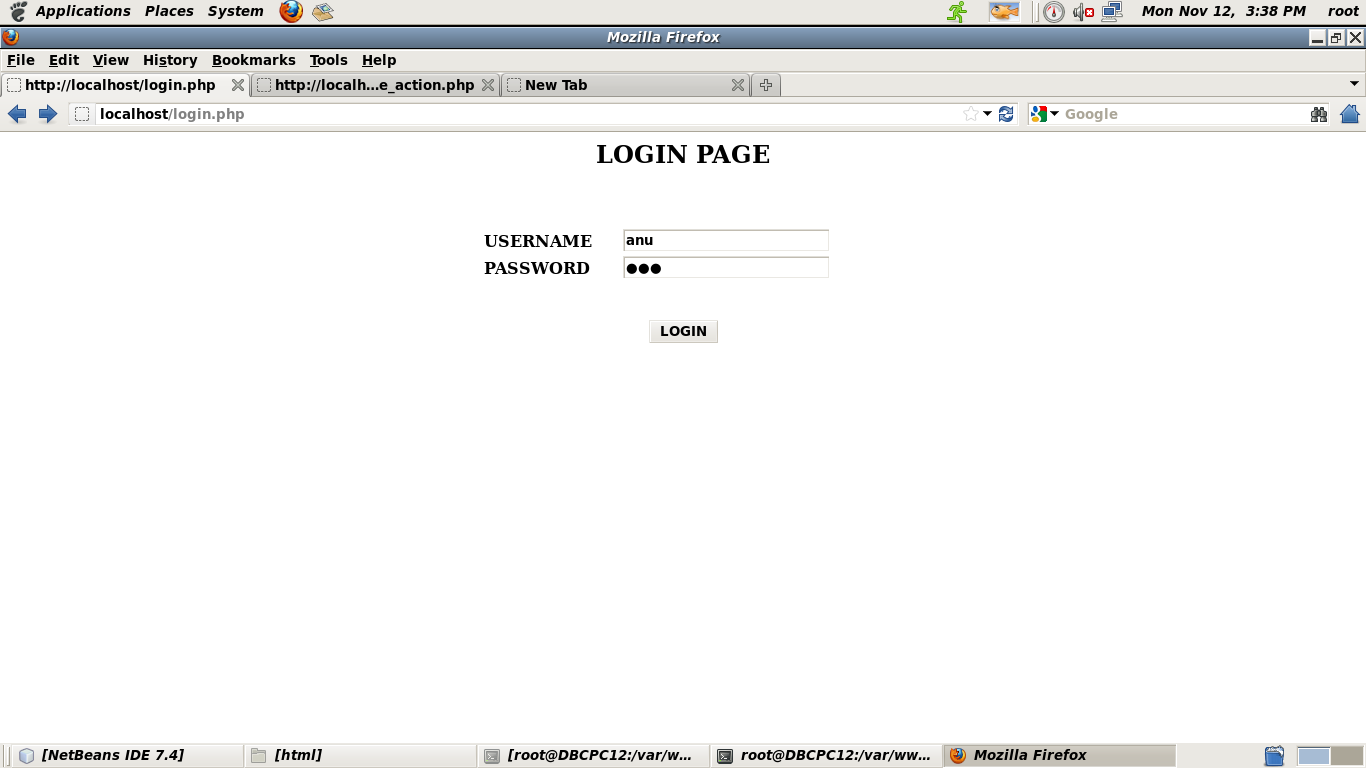
</body>

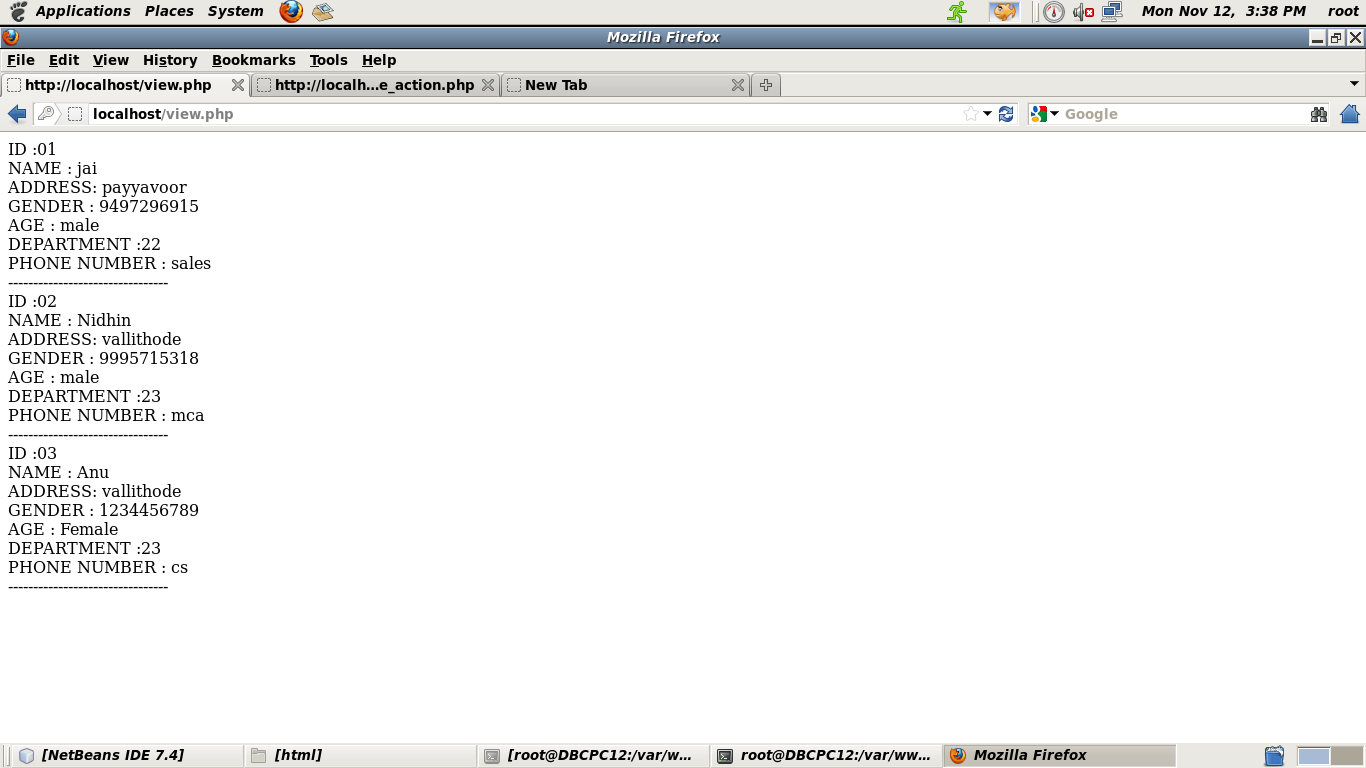
</html>

**OUTPUT:**

****

****

****

****

**PROGRAM: 23**

**AIM:** [**Program to create a simple calculator.**](http://www.makeitsimple.co.in/PHP_registration.php)

<?php

ini\_set('display\_errors',0);

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

{

$operator=$\_REQUEST['operator'];

if($operator=="+")

{

$add1 = $\_REQUEST['fvalue'];

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

$res= $add1+$add2;

}

if($operator=="-")

{

$add1 = $\_REQUEST['fvalue'];

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

$res= $add1-$add2;

}

if($operator=="\*")

{

$add1 = $\_REQUEST['fvalue'];

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

$res =$add1\*$add2;

}

if($operator=="/")

{

$add1 = $\_REQUEST['fvalue'];

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

$res= $add1/$add2;

}

if($\_REQUEST['fvalue']==NULL && $\_REQUEST['lvalue']==NULL)

{

echo "<script language=javascript> alert(\"Please Enter values.\");</script>";

}

else if($\_REQUEST['fvalue']==NULL)

{

echo "<script language=javascript> alert(\"Please Enter First value.\");</script>";

}

else if($\_REQUEST['lvalue']==NULL)

{echo "<script language=javascript> alert(\"Please Enter second value.\");</script>";

}

}

?>

<form>

<table style="border:groove #00FF99">

<tr>

<td style="background-color:aqua; color:red; font-family:'Times New Roman'">Enter

First Number</td>

<td colspan="1">

<input name="fvalue" type="text" style="color:red"/></td>

<tr>

<td style="color:burlywood; font-family:'Times New Roman'">Select Operator</td>

<td>

<select name="operator" style="width: 63px">

<option>+</option>

<option>-</option>

<option>\*</option>

<option>/</option>

</select></td>

</tr>

<tr>

<td style="background-color:aqua; color:red; font-family:'Times New Roman'">Enter

First Number</td>

<td class="auto-style5">

<input name="lvalue" type="text" style="color:red"/></td>

</tr>

<tr>

<td></td>

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

style="color:wheat;background-color:rosybrown" /></td>

</tr>

<tr>

<td style="background-color:aqua;color:red">Output = </td>

<td style="color:darkblue"><?php echo $res;?></td>

</tr>

</table>

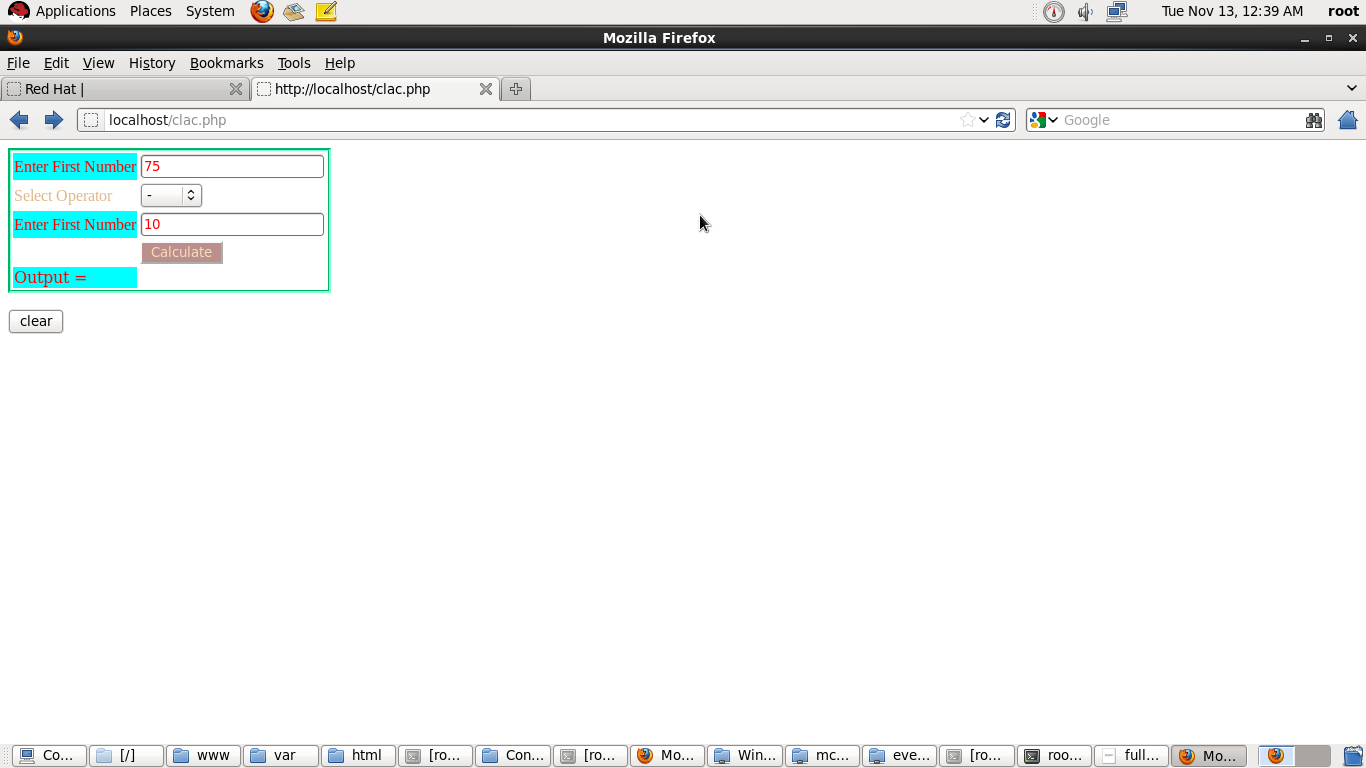
<p>

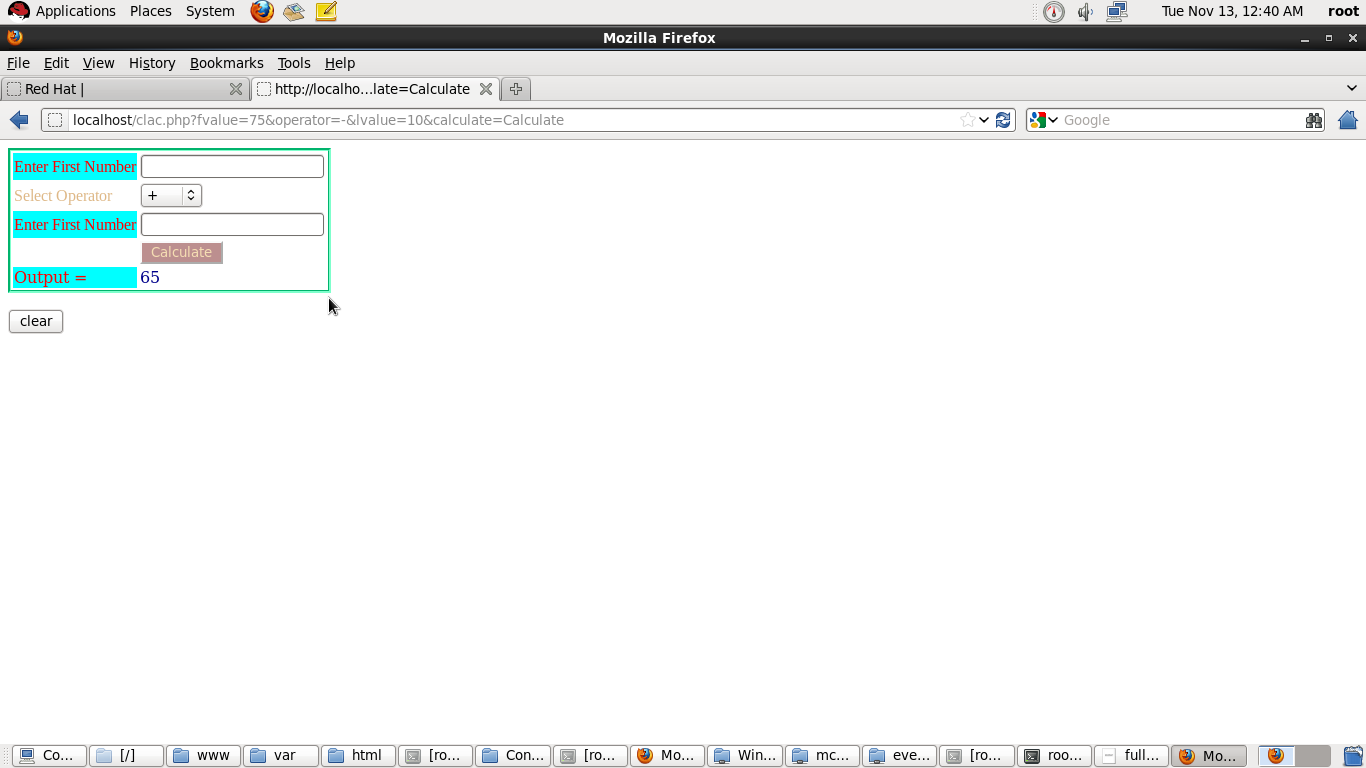
<input type="submit" name="Submit" value="clear">

</p>

</form>

**OUTPUT:**

****

****

**PROGRAM: 24**

**AIM: JQuery program for hide and show**

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("#hide").click(function(){

$("p").hide();

});

$("#show").click(function(){

$("p").show();

});

});

</script>

</head>

<body>

<p>If you click on the "Hide" button, I will disappear.</p>

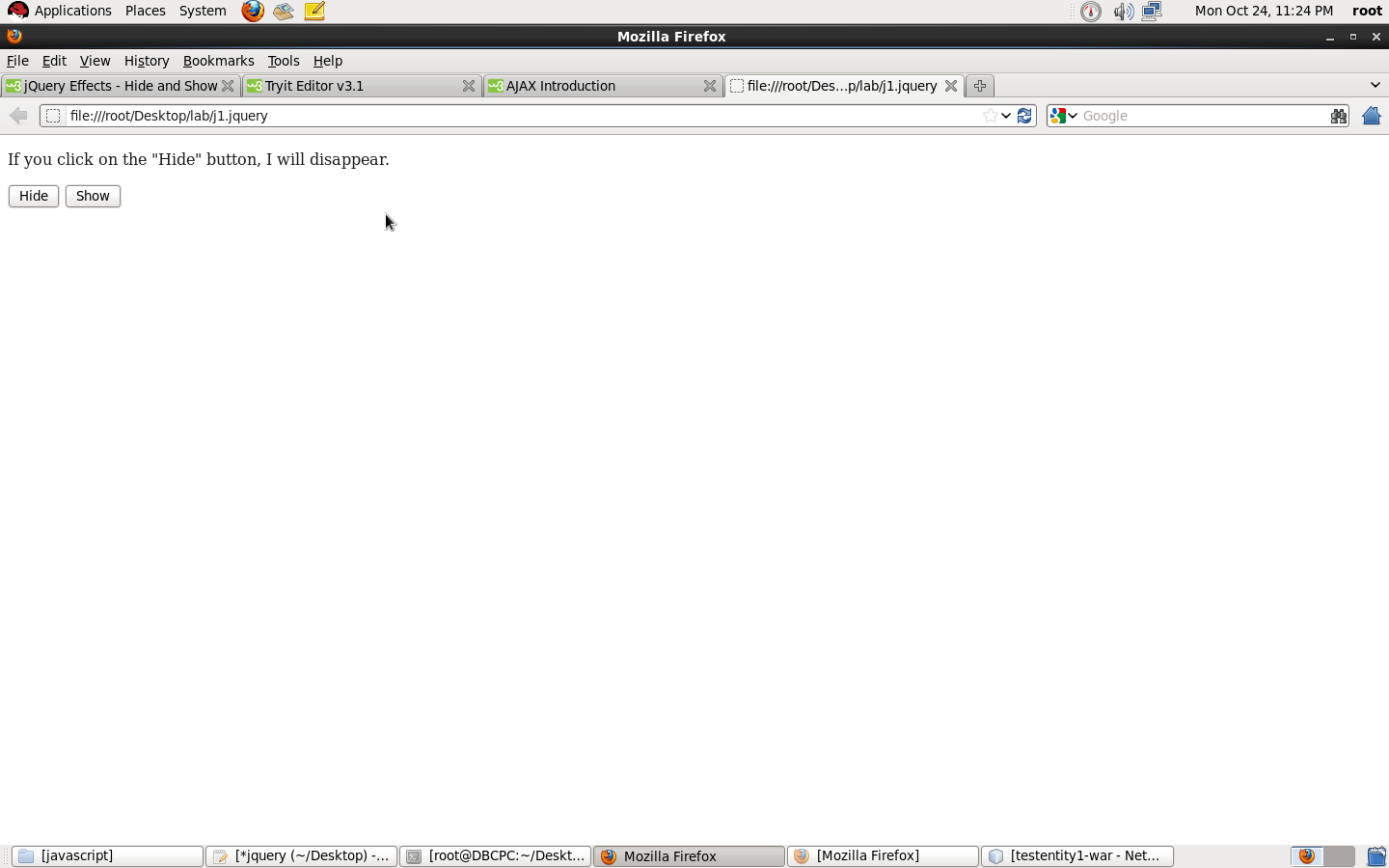
<button id="hide">Hide</button>

<button id="show">Show</button>

</body>

</html>

**OUTPUT:**



**PROGRAM: 25**

**AIM: JQuery toggle**

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$("p").toggle();

});

});

</script>

</head>

<body>

<button>Toggle between hiding and showing the paragraphs</button>

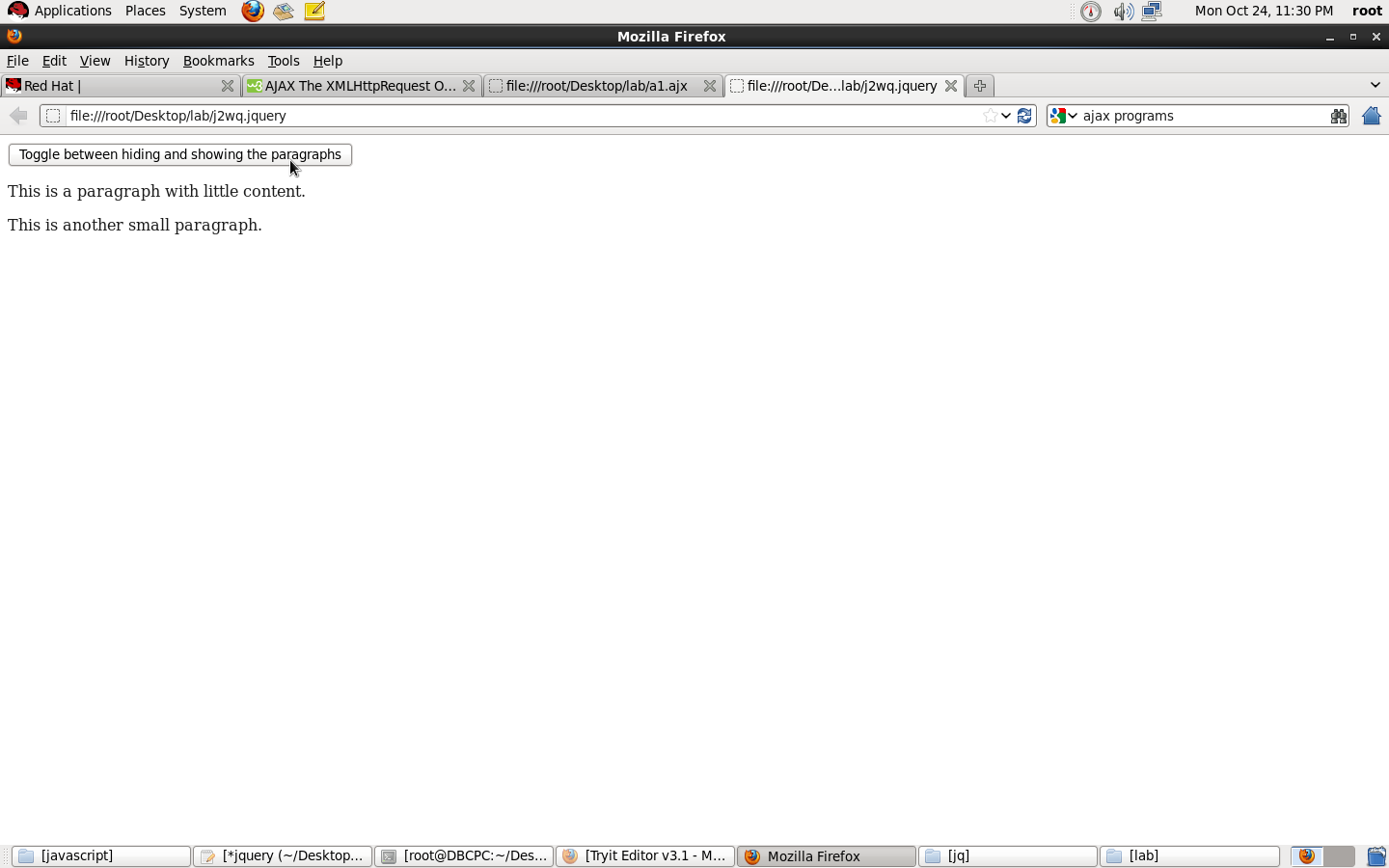
<p>This is a paragraph with little content.</p>

<p>This is another small paragraph.</p>

</body>

</html>

**OUTPUT:**



**PROGRAM :26**

**AIM: AJAX program for change content**

<!DOCTYPE html>

<html>

<body>

<div id="demo"><h2>Let AJAX change this text</h2></div>

<button type="button" onclick="loadDoc()">Change Content</button>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("demo").innerHTML = this.responseText;

}

};

xhttp.open("GET", "ajax\_info.txt", true);

xhttp.send();

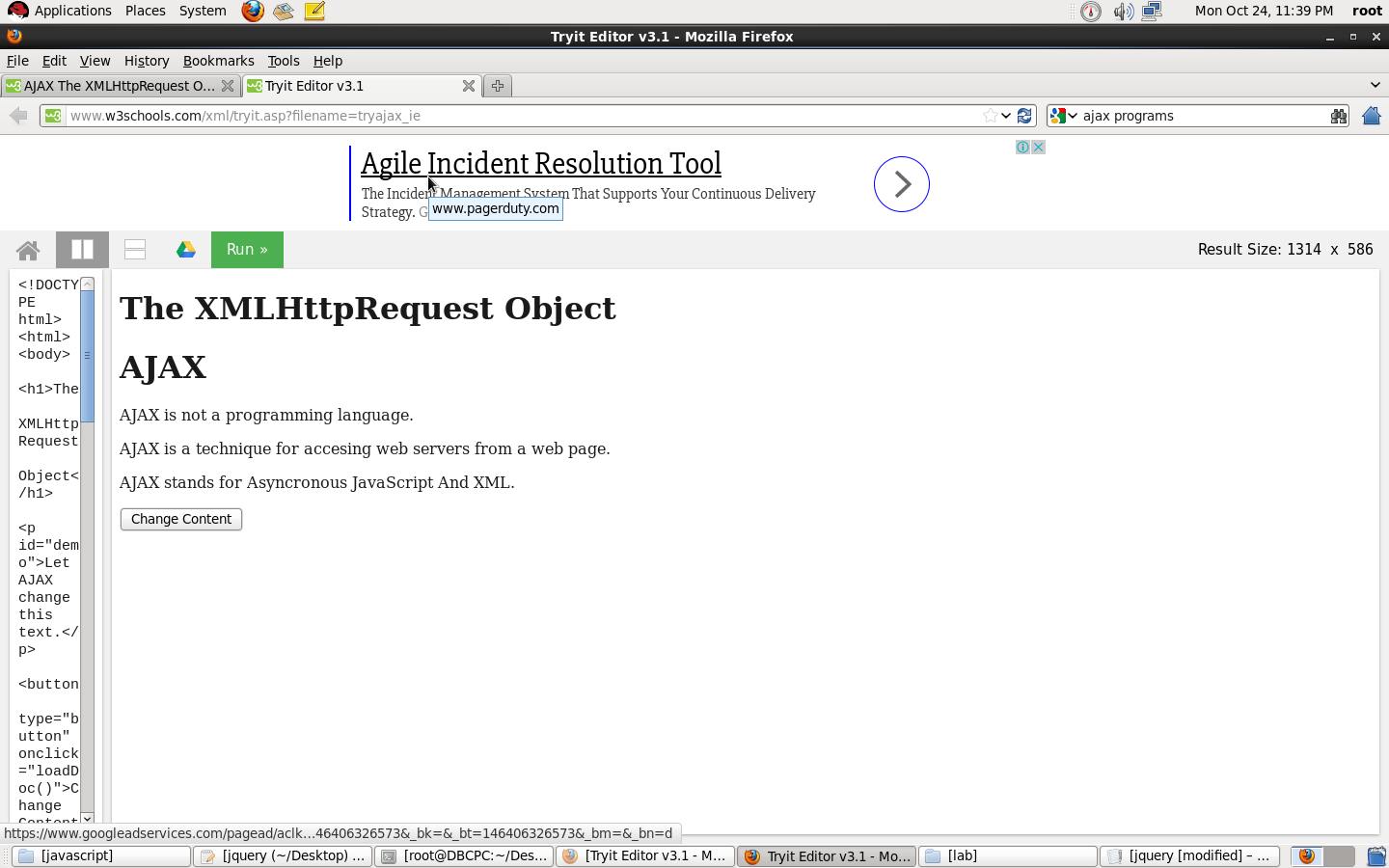
}

</script>

</body>

</html>

**OUTPUT:**



**COMPILER DESIGN**

**PROGRAM NO:1**

**AIM:Write a program for addition a series of 8-bit number**

DATA SEGMENT

NUMLIST DB 01H,03H,02H,03H,02H

COUNT EQU 05H

RESULT DW 01H DUP(?)

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV CX,COUNT

XOR AX,AX

XOR BX,BX

MOV SI,OFFSET NUMLIST

AGAIN: MOV BL,[SI]

ADD AX,BX

INC SI

DEC CX

JNZ AGAIN

MOV DI,OFFSET RESULT

MOV [DI],AX

INT 3H

CODE ENDS

END START

**OUTPUT**

AX=000B

**PROGRAM NO: 2**

**AIM:LEX PROGRAM**

%{

#include<stdio.h>

#include<string.h>

%}

letter[A-Z a-z]

digit[0-9]

symbol[+ \* < >]

id{letter}({letter}|{digit})\*

num{digit}+

%%

if |then|else {printf("keyword %s\n",yytext);}

{id} {

printf("identifier %s\n",yytext);}

{num} {

printf("number %s\n",yytext);}

{symbol} {printf("symbol %s\n",yytext);}

%%

main()

{

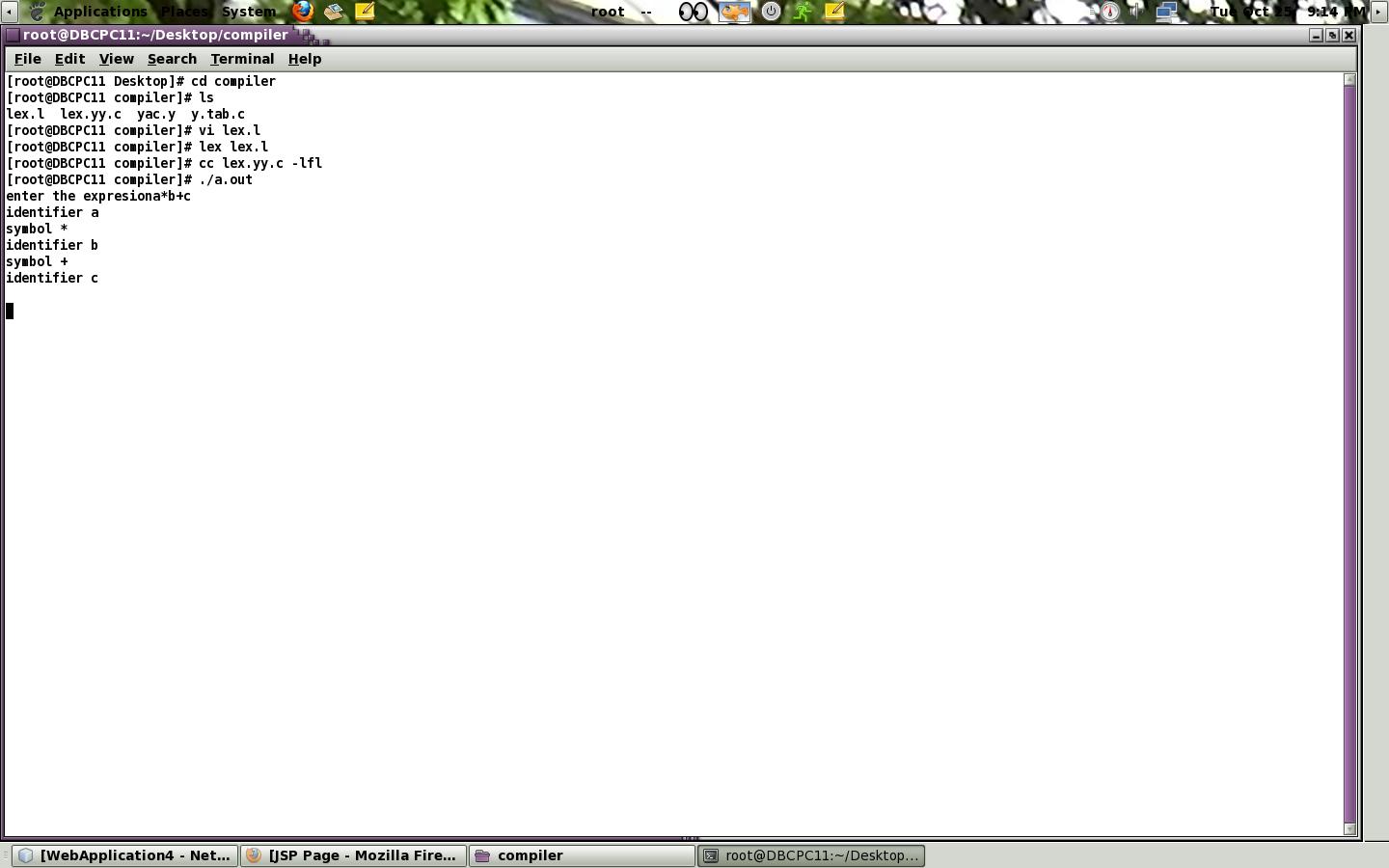
printf("enter the expresion");

yyin=stdin;

yylex();

}

**OUTPUT**



**PROGRAM NO: 3**

**AIM:YACC PROGRAM**

%{

#include<stdio.h>

#include<ctype.h>

%}

%token DIGIT

%%

line:expr'\n' {printf("Answer is %d\n",$1);}

;

expr:expr'+'term {$$=$1+$2;}

|term

;

term:term'\*'factor {$$=$1\*$3;}

|factor

;

factor:'c'expr'c' {$$=$2;}

|DIGIT

;

%%

main()

{

printf("Enter the expression");

yyparse();}

yyerror(char \*s)

{

fprintf(stderr, "%s\n",s);

}

yylex(){

int c;

c=getchar();

if(isdigit(c))

{

yylval=c-'0';

return DIGIT;

}

return c;

}

**OUTPUT**

Enter the expression

5+7

Answer is 12

**PROGRAM NO: 4**

**AIM:LALR PARSER**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

#include<string.h>

void push(char \*,int \*,char);

char stacktop(char \*);

void isproduct(char,char);

int ister(char);

int isnter(char);

int isstate(char);

void error();

void isreduce(char,char);

char pop(char \*,int \*);

void printt(char \*,int \*,char [],int);

void rep(char [],int);

struct action

{

char row[6][5];

};

const struct action A[12]={

{"sf","emp","emp","se","emp","emp"},

{"emp","sg","emp","emp","emp","acc"},

{"emp","rc","sh","emp","rc","rc"},

{"emp","re","re","emp","re","re"},

{"sf","emp","emp","se","emp","emp"},

{"emp","rg","rg","emp","rg","rg"},

{"sf","emp","emp","se","emp","emp"},

{"sf","emp","emp","se","emp","emp"},

{"emp","sg","emp","emp","sl","emp"},

{"emp","rb","sh","emp","rb","rb"},

{"emp","rb","rd","emp","rd","rd"},

{"emp","rf","rf","emp","rf","rf"} };

struct gotol { char r[3][4]; };

const struct gotol G[12]={

{"b","c","d"},

{"emp","emp","emp"},

{"emp","emp","emp"},

{"emp","emp","emp"},

{"i","c","d"},

{"emp","emp","emp"},

{"emp","j","d"},

{"emp","emp","k"},

{"emp","emp","emp"},

{"emp","emp","emp"},

};

char ter[6]={'i','+','\*',')','(','$'};

char nter[3]={'E','T','F'};

char states[12]={'a','b','c','d','e','f','g','h','m','j','k','l'};

char stack[100];

int top=-1;

char temp[10];

struct grammar { 26

char left;

char right[5];

};

const struct grammar rl[6]={ {'E',"e+T"},

{'E',"T"}, {'T',"T\*F"},

{'T',"F"}, {'F',"(E)"},

{'F',"i"}, };

void main()

{ char inp[80],x,p,dl[80],y,bl='a';

int i=0,j,k,l,n,m,c,len;

clrscr();

printf(" Enter the input :");

scanf("%s",inp);

len=strlen(inp);

inp[len]='$';

inp[len+1]='\0';

push(stack,&top,bl);

printf("\n stack \t\t\t input");

printt(stack,&top,inp,i);

do { x=inp[i];

p=stacktop(stack);

isproduct(x,p);

if(strcmp(temp,"emp")==0) error();

if(strcmp(temp,"acc")==0) break;

else { if(temp[0]=='s')

{

push(stack,&top,inp[i]);

push(stack,&top,temp[1]);

i++;

}

else

{

if(temp[0]=='r')

{

j=isstate(temp[1]);

strcpy(temp,rl[j-2].right);

dl[0]=rl[j-2].left;

dl[1]='\0';

n=strlen(temp);

for(k=0;k<2\*n;k++)

pop(stack,&top);

for(m=0;dl[m]!='\0';m++)

push(stack,&top,dl[m]);

l=top; y=stack[l-1];

isreduce(y,dl[0]);

for(m=0;temp[m]!='\0';m++)

push(stack,&top,temp[m]);

}

}

}

printt(stack,&top,inp,i);

}

while(inp[i]!='\0');

if(strcmp(temp,"acc")==0)

printf(" \n accept the input ");

else

printf(" \n do not accept the input ");

getch();

}

void push(char \*s,int \*sp,char item)

{

if(\*sp==100)

printf(" stack is full ");

else

{

\*sp=\*sp+1;

s[\*sp]=item;

}

}

char stacktop(char \*s)

{

char i;

i=s[top];

return i;

}

void isproduct(char x,char p)

{

int k,l;

k=ister(x);

l=isstate(p);

strcpy(temp,A[l-1].row[k-1]);

}

int ister(char x)

{

int i;

for(i=0;i<6;i++)

if(x==ter[i])

return i+1;

return 0;

}

int isnter(char x)

{

int i;

for(i=0;i<3;i++)

if(x==nter[i])

return i+1;

return 0;

}

int isstate(char p)

{

int i;

for(i=0;i<12;i++)

if(p==states[i])

return i+1;

return 0;

}

void error()

{

printf(" error in the input ");

exit(0);

}

void isreduce(char x,char p)

{

int k,l;

k=isstate(x);

l=isnter(p);

strcpy(temp,G[k-1].r[l-1]);

}

char pop(char \*s,int \*sp)

{

char item;

if(\*sp==-1)

printf(" stack is empty ");

else { item=s[\*sp];

\*sp=\*sp-1;

}

return item;

}

void printt(char \*t,int \*p,char inp[],int i)

{

int r;

printf("\n");

for(r=0;r<=\*p;r++)

rep(t,r);

printf("\t\t\t");

for(r=i;inp[r]!='\0';r++)

printf("%c",inp[r]);

}

void rep(char t[],int r)

{

char c;

c=t[r];

switch(c)

{

case 'a': printf("0");

break;

case 'b': printf("1");

break;

case 'c': printf("2");

break;

case 'd': printf("3");

break;

case 'e': printf("4");

break;

case 'f': printf("5");

break;

case 'g': printf("6");

break;

case 'h': printf("7");

break;

case 'm': printf("8");

break;

case 'j': printf("9");

break;

case 'k': printf("10");

break;

case 'l': printf("11");

break;

default :printf("%c",t[r]);

break;

}

}

**OUTPUT**

**Stack input**

0 i\*i+i$

0i5 \*i+i$

0F3 \*i+i$

0T2 \*i+i$

0T2\*7 i+i$

0T2\*7i5 +i$

0T2\*7i5F10 +i$

0T2 +i$

0E1 +i$

0E1+6 i$

0E1+6i5 $

0E1+6F3 $

0E1+6T9 $

0E1 $

accept the input

**PROGRAM NO:5**

**AIM:Operator precedence**

#include<stdio.h>

char str[50],opstr[75];

int f[2][9]={2,3,4,4,4,0,6,6,0,1,1,3,3,5,5,0,5,0};

int col,col1,col2;

char c;

swt()

{

switch(c)

{

case'+':col=0;

break;

case'-':col=1;

break;

case'\*':col=2;

break;

case'/':col=3;

break;

case'^':col=4;

break;

case'(':col=5;break;

case')':col=6;

break;

case'd':col=7;

break;

case'$':col=8;

break;

default:printf("\nTERMINAL MISSMATCH\n");

exit(1);

break;

}

// return 0;

}

main()

{

int i=0,j=0,col1,cn,k=0;

int t1=0,foundg=0;

char temp[20];

clrscr();

printf("\nEnter arithmetic expression:");

scanf("%s",&str);

while(str[i]!='\0')

i++;

str[i]='$';

str[++i]='\0';

printf("%s\n",str);

come: i=0;

opstr[0]='$';

j=1;

c='$';

swt();

col1=col;

c=str[i];

swt();

col2=col;

if(f[1][col1]>f[2][col2])

{

opstr[j]='>';

j++;

}

else

if(f[1][col1]<f[2][col2])

{

opstr[j]='<';

j++;

}

else

{

opstr[j]='=';

j++;

}

while(str[i]!='$')

{

c=str[i];

swt();

col1=col;

c=str[++i];

swt();

col2=col;

opstr[j]=str[--i];

j++;

if(f[0][col1]>f[1][col2]) {

opstr[j]='>';

j++;

}

else if(f[0][col1]<f[1][col2])

{

opstr[j]='<';

j++;

}

else

{

opstr[j]='=';

j++;

}

i++;

}

opstr[j]='$';

opstr[++j]='\0';

printf("\nPrecedence Input:%s\n",opstr);

i=0;

j=0;

while(opstr[i]!='\0')

{

foundg=0;

while(foundg!=1)

{

if(opstr[i]=='\0')

goto redone;

if(opstr[i]=='>')

foundg=1;

t1=i; i++;

}

if(foundg==1)

for(i=t1;i>0;i--)

if(opstr[i]=='<')

break;

if(i==0){

printf("\nERROR\n");

exit(1);

}

cn=i;

j=0;

i=t1+1;

while(opstr[i]!='\0')

{

temp[j]=opstr[i];

j++;

i++;

}

temp[j]='\0';

opstr[cn]='E';

opstr[++cn]='\0';

strcat(opstr,temp);

printf("\n%s",opstr);

i=1;

}

redone:k=0;

while(opstr[k]!='\0')

{

k++;

if(opstr[k]=='<')

{

Printf("\nError");

exit(1);

} }

if((opstr[0]=='$')&&(opstr[2]=='$'))

goto sue;

i=1

while(opstr[i]!='\0')

{

c=opstr[i];

if(c=='+'||c=='\*'||c=='/'||c=='$')

{

temp[j]=c;j++;} i++;

}

temp[j]='\0';

strcpy(str,temp);

goto come;

sue:

printf("\n success");

return 0;

}

**OUTPUT**

(d\*d)+d$

Precedence input:$<(<d>\*<d>)>+<d>$

$<(E\*<d>)>+<d>$

$<(E\*E)>+<E>$

$E+<E>$ $E+E$

Precedence input:$<+>$

$E$

Success

**PROGRAM NO:6**

**AIM:Recursive descent parsing**

#include<stdio.h>

#include<conio.h>

#include<string.h>

char input[100];

int i,l;

void main()

{

clrscr();

printf("\nRecursive descent parsing for the following grammar\n");

printf("\nE->TE'\nE'->+TE'/@\nT->FT'\nT'->\*FT'/@\nF->(E)/ID\n");

printf("\nEnter the string to be checked:");

gets(input);

if(E())

{

if(input[i+1]=='\0')

printf("\nString is accepted");

else

printf("\nString is not accepted");

}

else

printf("\nString not accepted");

getch();

}

E()

{

if(T())

{

if(EP())

return(1);

else

return(0);

}

else

return(0);

}

EP()

{

if(input[i]=='+')

{

i++;

if(T())

{

if(EP())

return(1);

else

return(0);

}

else

return(0);

}

else

return(1);

}

T()

{

if(F())

{

if(TP())

return(1);

else

return(0);

}

else

return(0);

}

TP()

{

if(input[i]=='\*')

{

i++;

if(F())

{

if(TP())

return(1);

else

return(0);

}

else

return(0);

}

else

return(1);

}

F()

{

if(input[i]=='(')

{

i++;

if(E())

{

if(input[i]==')')

{

i++;

return(1);

}

else

return(0);

}

else

return(0);

}

else

if(input[i]>='a'&&input[i]<='z'||input[i]>='A'&&input[i]<='Z')

{

i++;

return(1);

}

else

return(0);

}

**OUTPUT**

Enter the string to be checked:(a+b)\*c

String is accepted

Recursive descent parsing for the following grammar

E->TE'

E'->+TE'/@

T->FT' T'->\*FT'/@

F->(E)/ID

Enter the string to be checked:

a/c+d

String is not accepted