EX.NO: 1	HTML TO SERVLET COMMUNICATION
DATE:28/08/2024	

AIM:

Write a program to implement HTML to Servlet communication.

SOURCE CODE:

HTML CODE:

```
<html>
   <head>
      <title>BIO-DATA</title>
   </head>
   <body>
      <form action="biodata" method="post">
         <center>
            <b> BIO-DATA <br><br>
               Enter Your Name:<input type="text" name="txtname" value=""><br><br>
               Enter Gender:
               <input type="radio" name="radgen" value="Male">MALE
               <input type="radio" name="radgen" value="Female">FEMALE<br><br>
               Languages Known:
               <input type="checkbox" name="c1" value="Tamil">TAMIL
               <input type="checkbox" name="c2" value="English">ENGLISH
               <input type="checkbox" name="c3" value="Hindi">HINDI
               <input type="checkbox" name="c4" value="Telugu">TELUGU<br><br>
               Percentage Of Marks: <input type="text" name="pm"><br><br><br>
               <input type="submit" name="submit"><br></b>
         </center>
      </form>
   </body>
</html>
```

SERVLET: biodata

```
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;

public class biodata extends HttpServlet {
   protected void processRequest(HttpServletRequest request, HttpServletResponse response)
         throws ServletException, IOException {
      response.setContentType("text/html;charset=UTF-8");
      try (PrintWriter out = response.getWriter()) {
         String s1 = request.getParameter("txtname");
         int mark=Integer.parseInt(request.getParameter("pm"));
         String r = request.getParameter("radgen");
         String ck1 =  request.getParameter("c1");
         String ck2 =  request.getParameter("c2");
         String ck3 =  request.getParameter("c3");
         String ck4 = request.getParameter("c4");
         boolean c1 = request.getParameter("c1")!=null;
         boolean c2 = request.getParameter("c2")!=null;
         boolean c3 = request.getParameter("c3")!=null;
         boolean c4 = request.getParameter("c4")!=null;
         out.println("<html>");
         out.println("<body>");
         out.println("<center>");
         out.println("<br>BIO-DATA<br><br>");
         out.println("Name of the student: "+s1+" <br>");
         out.println("Gender: "+r+" <br>");
         out.println("Languages Known: "+" <br>");
         if (c1==true)
```

```
            out.println(" "+ck1+"<br>");
        if (c2==true)
            out.println(" "+ck2+"<br>");
        if (c3==true)
            out.println(" "+ck3+"<br>");
        if (c4==true)
            out.println(" "+ck4+"<br>");
        out.println("Percentage of marks :"+mark+"<br>");
        out.println("</center>");
        out.println("</body>");

    }
  }
}
```

OUTPUT:

BIO - DATA

Enter Your Name:

Enter Your Gender: ○ Male ○ Female

Languages Known: ▢ Tamil ▢ English ▢ Hindi ▢ Telugu

Percentage of Marks:

Submit

BIO - DATA

Enter Your Name: Nithyakumar Raj

Enter Your Gender: ◉ Male ○ Female

Languages Known: ☑ Tamil ☑ English ☑ Hindi ▢ Telugu

Percentage of Marks: 94.2

Submit

BIO – DATA

Name of the Student: Nithyakumar Raj

Gender: Male

Languages Known : English, Hindi, Tamil

Percentage of Marks: 94.2

EX.NO: 3	COOKIES
DATE:02/09/2024	

AIM:

Write a program to implement Cookies.

SOURCE CODE:

HTML CODE:

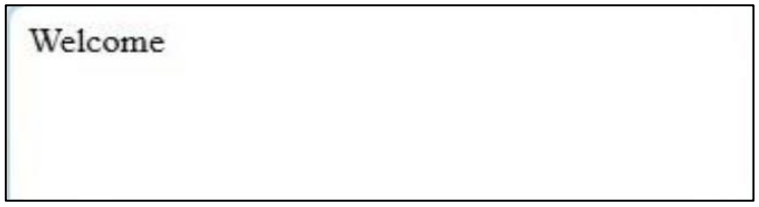
```
<html>
   <head>
      <title>COOKIES</title>
   <body>
      <form action="cookie" method="post">
         <center>
            <font color="Olive"><b> COOKIES </b><br><br>
            Enter Your Name: <input type="text" name="txtname"><br><br>
            <input type="submit" value="Click">
         </center>
      </form>
   </body>
</html>
```

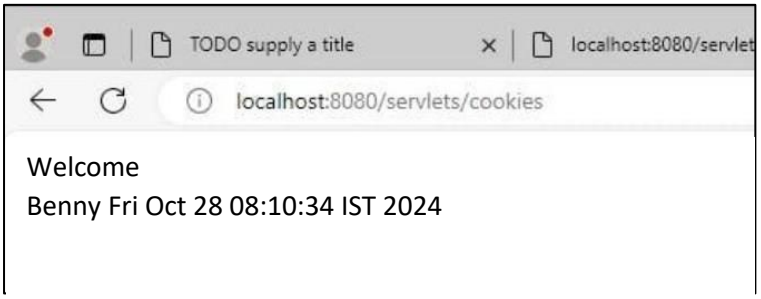
SERVLET: cookie

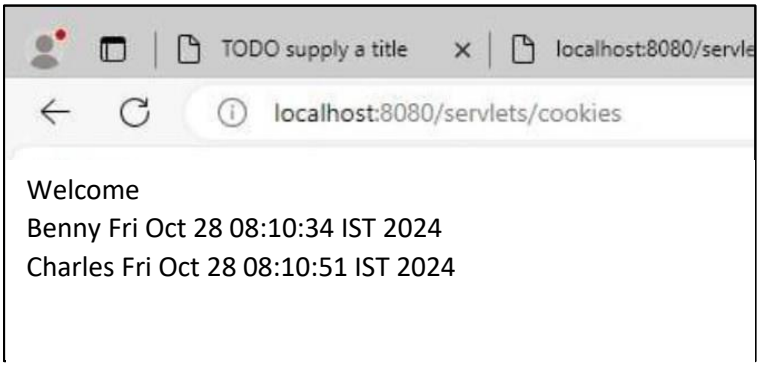
```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.util.Date;
import javax.servlet.http.Cookie;
```

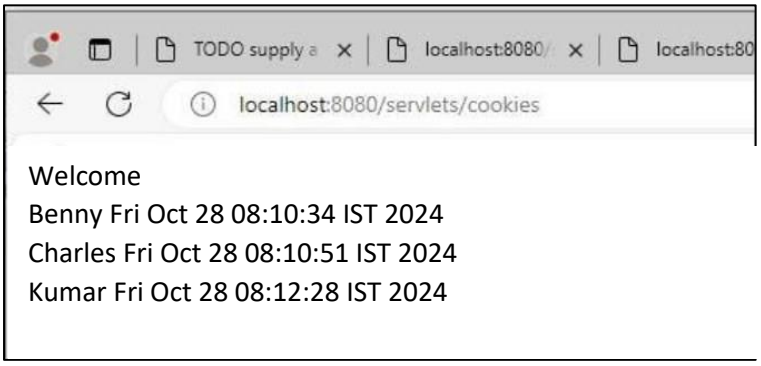
```
public class cookie extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            out.println("Welcome");
            out.println("<br>");
            Date d=new Date();
            String s=request.getParameter("txtname");
            Cookie cc=new Cookie(s,d.toString());
            response.addCookie(cc);
            Cookie[] c=request.getCookies();
            for (int i=0;i<c.length;i++)
            {
                Cookie cu=c[i];
                String name =cu.getName();
                String val=cu.getValue();
                out.println(" ");
                out.println(name+" "+val);
                out.println("<br>");
            }
            out.println("<html>");
        }
    }
}
```

OUTPUT:









RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 4	URL REWRITING
DATE:02/09/2024	

AIM:

Write a program to implement URL Rewriting.

SOURCE CODE:

HTML CODE:

```
<html>
   <head>
   <title> URL REWRITING </title>
   </head>
   <body>
      <form action="serv1" method="post">
         <center>
            <font color="Olive"><b> URL REWRITING </b><br><br>
            Enter Your Name: <input type="text" name="txtname"><br><br>
            <input type="submit" value="Click">
         </center>
      </form>
   </body>
</html>
```

SERVLET 1: serv1

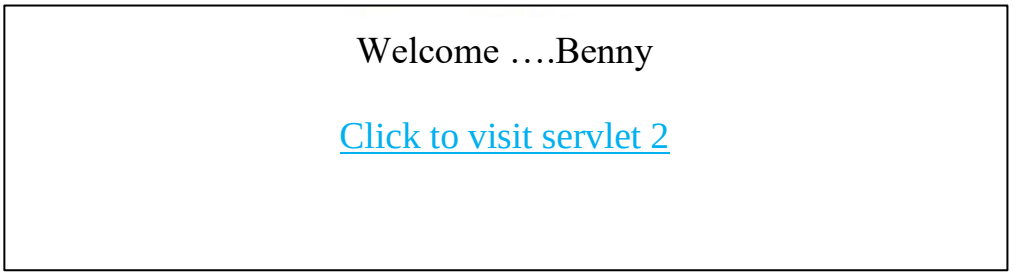
```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class serv1 extends HttpServlet {
```

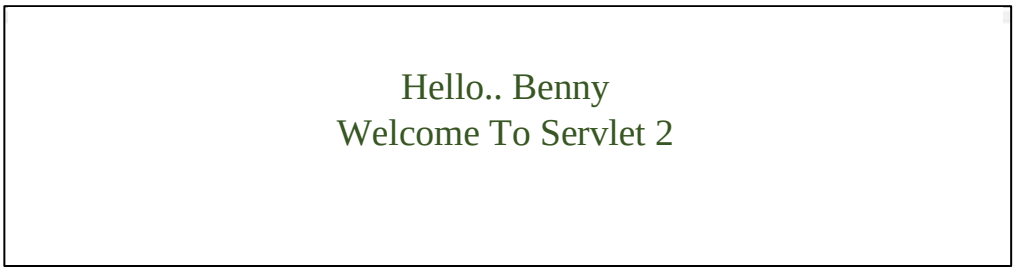
```
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            String n= request.getParameter("txtname");
            out.println("<center>");
            out.println("WELCOME.."+n);
            out.println("<br><br>");
            out.println("<a href='serv2?uname="+n+"'>Click to Visit Servlet2 </a>");
            out.close();
        }
    }
}
```

SERVLET 2: serv2

```
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;
public class serv2 extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            String n=request.getParameter("uname");
            out.println("<center>");
            out.println("Hello.."+n+"<br>WELCOME TO SERVLET2");
            out.close();
        }
    }
}
```

OUTPUT:





RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 7	HTML TO JSP COMMUNICATION
DATE:10/09/2024	

AIM:

Write a program to implement HTML to JSP communication.

SOURCE CODE:

HTML CODE:

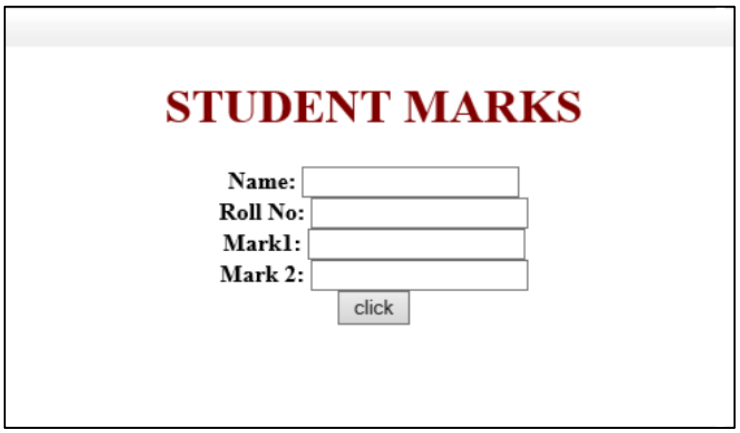
```
<html>
   <head>
   <title>STUDENT MARK</title>
   </head>
   <body>
   <form action="std.jsp" method="post">
      <center><b>
      <h1><font color="maroon"> STUDENT MARKS </font></h1>
      Name: <input type="text" name="t1"><br>
      Roll No: <input type="text" name="t2"><br>
      Mark1: <input type="text" name="m1"><br>
      Mark 2: <input type="text" name="m2"><br>
      <input type="submit" value="click"></b>
      </center>
   </form>
   </body>
</html>
```

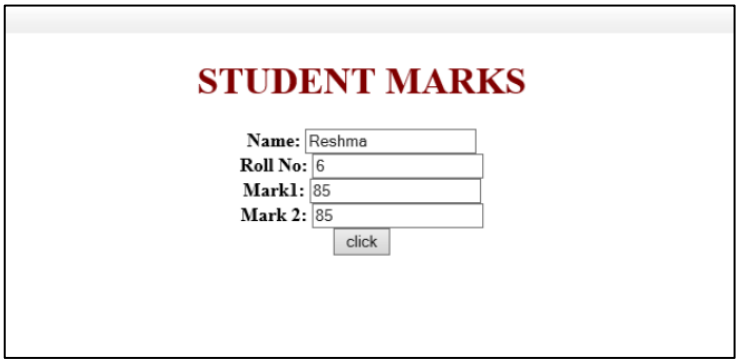
JSP:

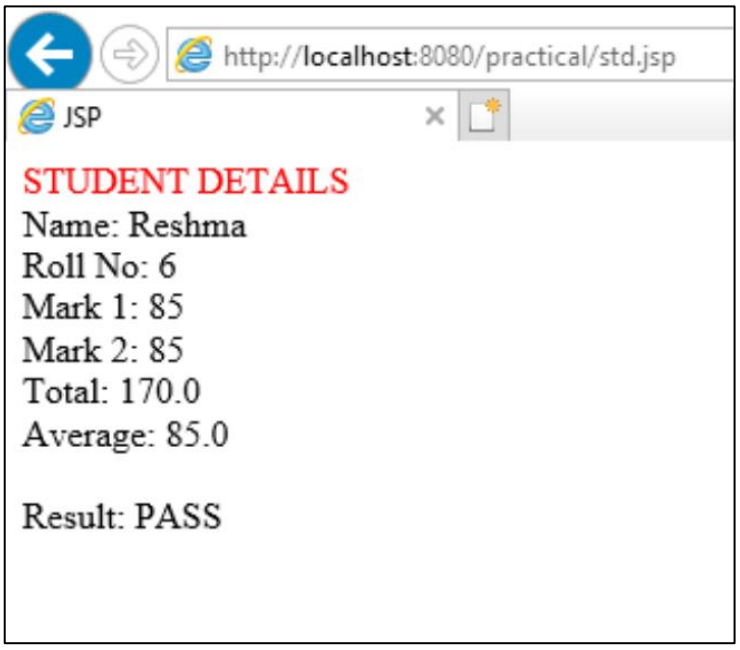
```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
    <title>JSP</title>
    </head>
    <body>
    <font color="red">STUDENT DETAILS </font>
    <%
    String na=request.getParameter("t1");
    String m=request.getParameter("t2");
    int a=Integer.parseInt(request.getParameter("m1"));
    int b=Integer.parseInt(request.getParameter("m2"));
    float tot=a+b;
    float avg=tot/2;
    out.println("<br>Name: "+na);
    out.println("<br>Roll No: "+m);
    out.println("<br>Mark 1: "+a);
    out.println("<br>Mark 2: "+b);
    out.println("<br>Total: "+tot);
    out.println("<br>Average: "+avg);
    if ((a>=50)&& (b>=50))
    out.println("<br><br>Result: PASS");
    else
    out.println("<br><nr>Result: FAIL");
    %>
    </body>
</html>
```

OUTPUT:







RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 8	JSP FORWARD AND INCLUDE
DATE:13/09/2024	

AIM:

Write a program to implement JSP Forward and Include.

SOURCE CODE:

HTML CODE:

```
<html>
   <head>
      <title> JSP FORWARD AND INCLUDE </title>
   </head>
   <body>
      <form action="newjsp1.jsp" method="get">
         Username: <input type="text" name="name"><br><br>
         Password: <input type="password" name="passwrd"><br><br>
         <input type="submit" value="Login">
      </form>
   </body>
</html>
```

JSP 1: newjsp1

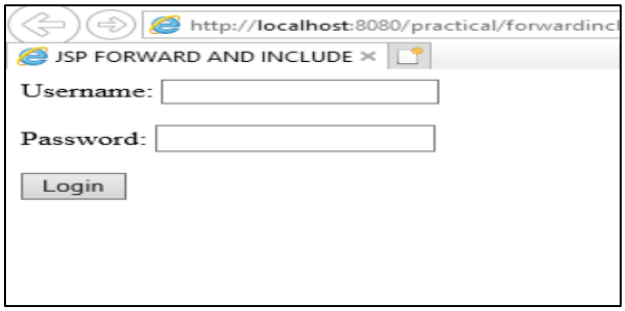
```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
   <title>JSP Page</title>
   </head>
   <body>
   <%!String uname,pass1;%>
   <%
   uname = request.getParameter("name");
```

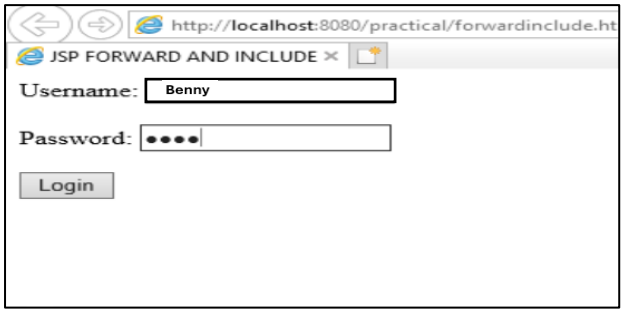
```
    pass1 = request.getParameter("passwrd");
    if(uname.equals("Reshma") && pass1.equals("1234")){%>
    <jsp:forward page="newjsp2.jsp" />
    <%}
    else{%>
    UserName And Password InCorrect.
    <jsp:include page="actionjsp.html" />
    <%}%>
    </body>
</html>
```

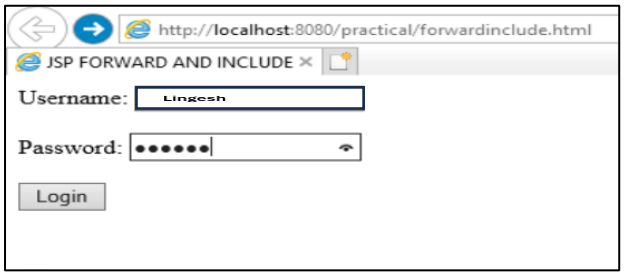
JSP 2: newjsp2

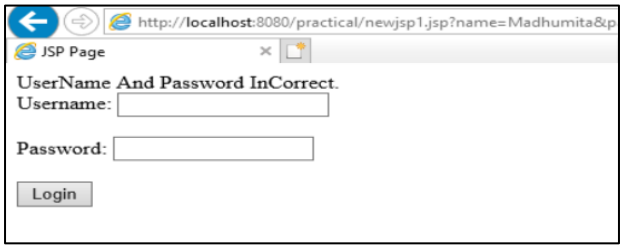
```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page2 for forward </title>
    </head>
    <body>
        <%String u,p;
        u=request.getParameter("name");
        p=request.getParameter("pass1");%>
        Welcome: <%=u%>
    </body>
</html>
```

OUTPUT:









RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 15	STRING OBJECT
DATE:01/10/2024	

AIM:

Write a program to implement String Object.

SOURCE CODE:

HTML CODE:

```
<html>
    <head>
    <title>STRING OPERATIONS</title>
    <h1> <font color="Purple"> STRING OPERATIONS </font></h1>
    </head>
    <body>
    <script>
    var s=new String("Welcome RESHMA!!");
    document.write("<br>Length of the string: "+s.length);
    document.write("<br>charAt(3): "+s.charAt(3));
    document.write("<br>charCodeAt(2): "+s.charCodeAt(2));
    document.write("<br>indexOf(e): "+s.indexOf("e"));
    document.write("<br>lastIndexOf(e): "+s.lastIndexOf("e"));
    document.write("<br>replace(e,a): "+s.replace("e","a"));
    document.write("<br>search(e): "+s.search("e"));
    document.write("<br>substr(3,4): "+s.substr(3,4));
    document.write("<br>substring(0,5): "+s.substring(0,5));
    document.write("<br>toUpperCase(): "+s.toUpperCase());
    document.write("<br>toLowerCase(): "+s.toLowerCase());
    document.write("<br>Big Font: "+s.big());
```

```
        document.write("<br>Small Font: "+s.small());
        document.write("<br>Bold Font: "+s.bold());
        document.write("<br>Italic Font "+s.italics());
        document.write("<br>Strike Font: "+s.strike());
        document.write("<br>Subscript: "+s.sub());
        document.write("<br>Superscript: "+s.sup());
        document.write("<br>Fontcolor(PURPLE): "+s.fontcolor("PURPLE"));
        document.write("<br>Fontsize(5): "+s.fontsize(5));
        </script>
        </body>
</html>
```

OUTPUT:

STRING OPERATIONS

Length of the string: 17
charAt(3): c
charCodeAt(2): 108
indexOf(e): 1
lastIndexOf(e):12
replace(e,a): Walcome Lingesh!!
search(e): 1
substr(3,4): come
substring(0,5): Welco
toUpperCase(): WELCOME LINGESH!!
toLowerCase(): welcome lingesh!!
Big Font: Welcome Lingesh!!
Small Font: Welcome Lingesh!!
Bold Font: **Welcome Lingesh!!**
Italic Font *Welcome Lingesh!!*
Strike Font: ~~Welcome Lingesh!!~~
Subscript: Welcome Lingesh!!
Superscript: Welcome Lingesh!!
Fontcolor(PURPLE): Welcome Lingesh!!
Fontsize(5): Welcome Lingesh!!

RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 16	MATH OBJECT
DATE:01/10/2024	

AIM:

Write a program to implement Math Object.

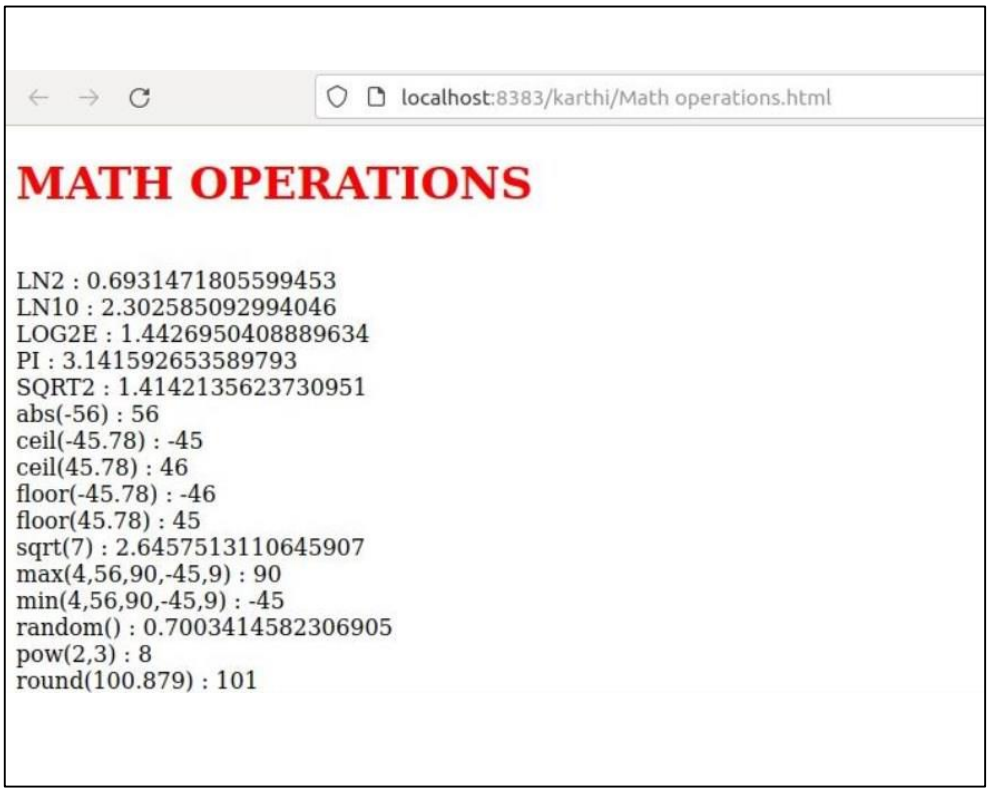
SOURCE CODE:

HTML CODE:

```
<html>
    <head>
    <title>MATH OPERATIONS</title>
    <h1><font color="red"> MATH OPERATIONS </font></h1>
    </head>
    <body>
    <script>
    document.write("<br>LN2 : "+Math.LN2);
    document.write("<br>LN10 : "+Math.LN10);
    document.write("<br>LOG2E : "+Math.LOG2E);
    document.write("<br>PI : "+Math.PI);
    document.write("<br>SQRT2 : "+Math.SQRT2);
    document.write("<br>abs(-56) : "+Math.abs(-56));
    document.write("<br>ceil(-45.78) : "+Math.ceil(-45.78));
    document.write("<br>ceil(45.78) : "+Math.ceil(45.78));
    document.write("<br>floor(-45.78) : "+Math.floor(-45.78));
    document.write("<br>floor(45.78) : "+Math.floor(45.78));
    document.write("<br>sqrt(7) : "+Math.sqrt(7));
    document.write("<br>max(4,56,90,-45,9) : "+Math.max(4,56,90,-45,9));
    document.write("<br>min(4,56,90,-45,9) : "+Math.min(4,56,90,-45,9));
```

```
        document.write("<br>random() : "+Math.random());
        document.write("<br>pow(2,3) : "+Math.pow(2,3));
        document.write("<br>round(100.879) : "+Math.round(100.879));
        </script>
        </body>
</html>
```

OUTPUT:



RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 18	DIALOG BOX
DATE:10/10/2024	

AIM:

Write a program to implement Dialog Box.

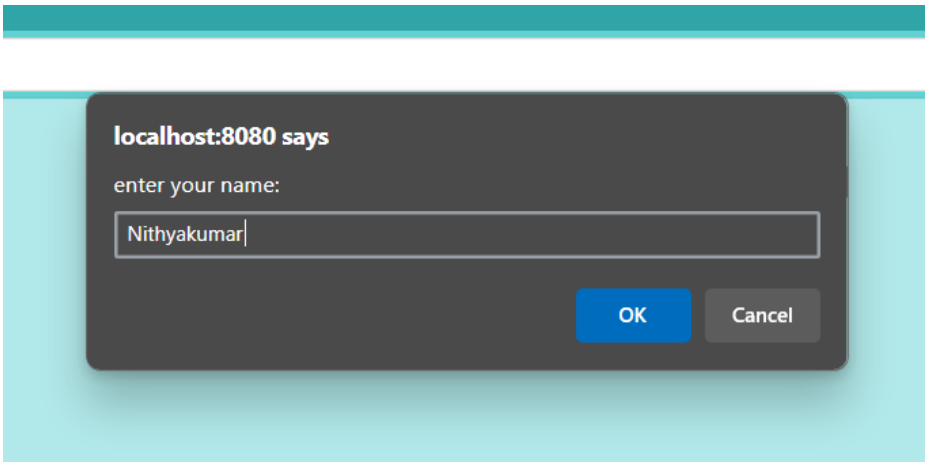
SOURCE CODE:

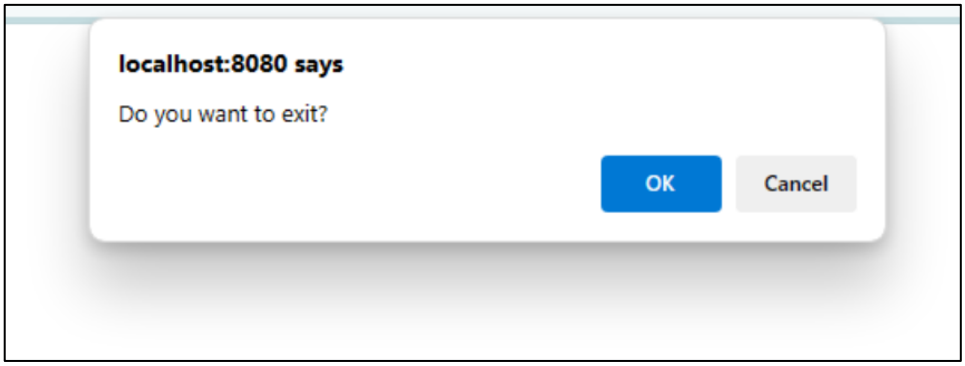
HTML CODE:

```
<html>
   <head>
      <title> DIALOG BOX </title>
   </head>
   <body>
      <font color="purple">DIALOG BOX </font><br><br>
      <script>
         alert("Welcome!! This is an Example for Alert");
         var name=prompt("Enter Your Name:");
         document.write("Hello  "+name);
         var result=confirm("Do you want to exit?");
         if (result==true)
         {
            document.write(".....Thank You For Visiting");
         }
         else
         {
            document.write("Welcome to this page");
         }
      </script>
   </body>
</html>
```

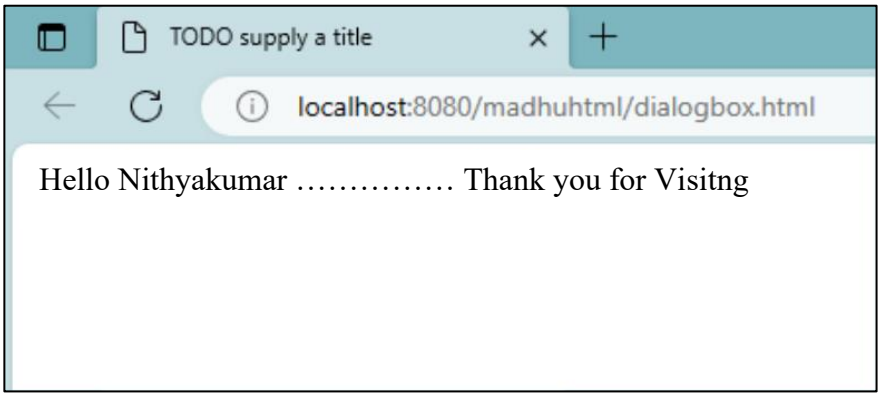
OUTPUT:


localhost:8080 says
Welcome, This is an example for Alert!
OK

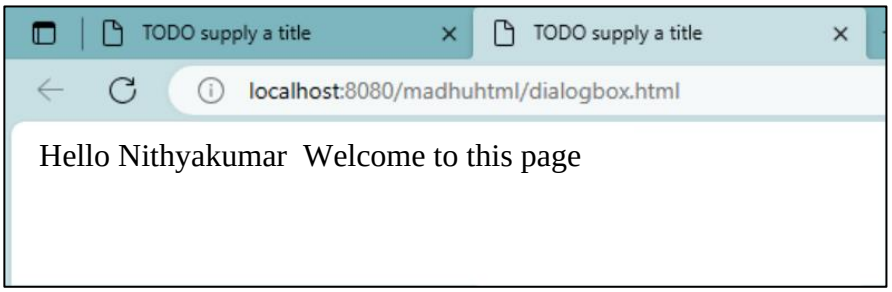

localhost:8080 says
enter your name:
Nithyakumar
OK
Cancel


localhost:8080 says
Do you want to exit?
OK
Cancel

When OK is clicked:



else:



RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 22	FORM VALIDATION
DATE:21/10/2024	

AIM:

Write a program to implement Form Validation.

SOURCE CODE:

HTML CODE:

```
<html>
   <head>
      <title>FORM VALIDATION</title>
   </head>
   <body>
      <script>
      function validateform()
      {
         var name=document.myform.name.value;
         var password=document.myform.pass.value;
         if (name==null || name=="")
         {
            alert("Please enter username");
            return false;
         }
         else if(password.length<8)
         {
            alert("Password must be minimum of eight characters");
            return false;
         }
      }
      </script>
      <form name="myform" onsubmit="return validateform()">
      <center>
```

```
        <b><u>Enter Your Details</u></b><br><br>
        Name:<input type="text" name="name"><br><br>
        Password:<input type="password" name="pass"><br><br>
        <input type="submit" value="Login">
        </center>
        </form>
    </body>
</html>
```

OUTPUT:

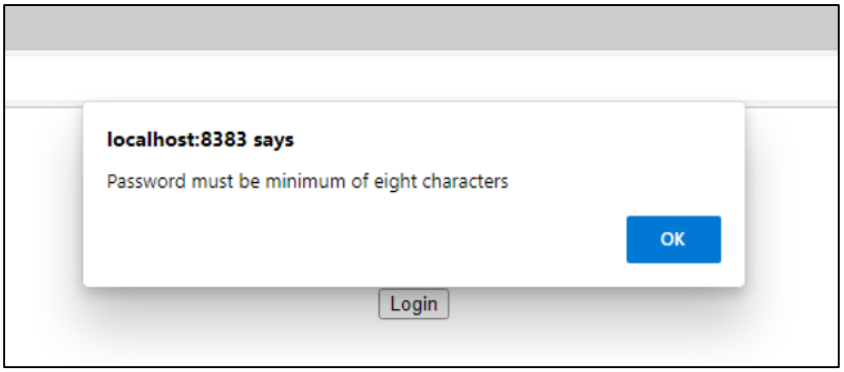
Form Validation

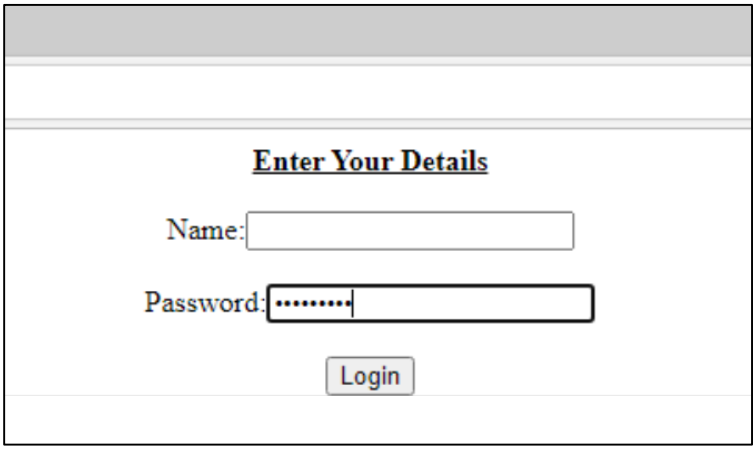
Enter Your Details

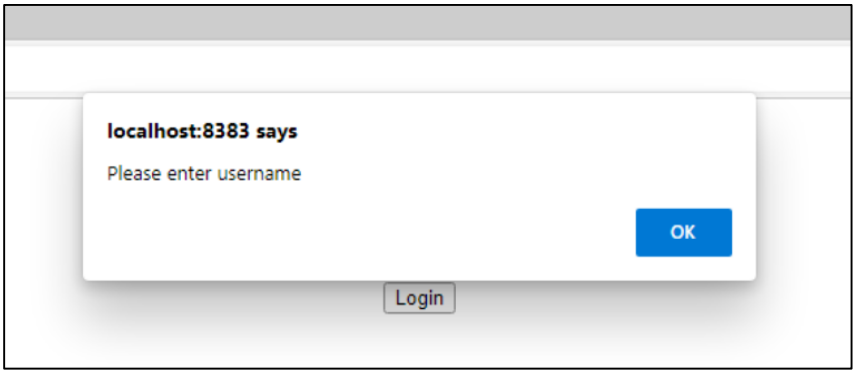
Name: Nithyakumar Raj

Password: ••••••••••

Login







RESULT:

The above program has been executed successfully and the output is verified.

EX.NO: 23	REGULAR EXPRESSION
DATE:24/10/2024	

AIM:

Write a program to implement Regular Expression.

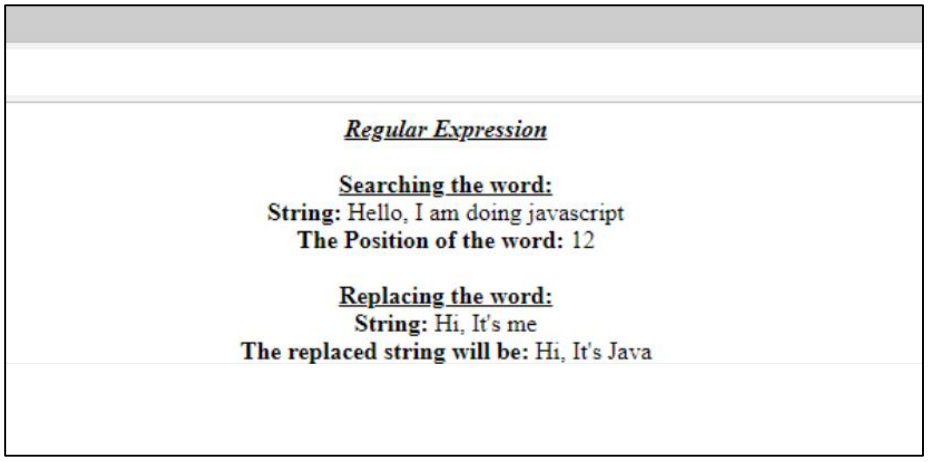
SOURCE CODE:

HTML CODE:

```
<html>
<head>
  <title>Regular Expression</title>
</head>
<body>
  <center>
    <b><u><i> Regular Expression </i></u></b> <br><br>
          <script>
     document.write("<b><u>Searching the word: </u></b><br>");
     var str= "Hello, I am doing javascript";
     document.write("<b>String: </b>"+str);
     var n=str.search(/Doing/i);
     document.write("<br><b>The Position of the word: </b>"+n+"<br><br>");
     function fun()
     {
          document.write("<b><u>Replacing the word: </u></b><br>");
          var str= "Hi, It's me";
          document.write("<b>String: </b>"+str);
          var n=str.replace(/mE/i,"Java");
          document.write("<br><b>The replaced string will be: </b>"+n+"<br><br>");
```

```
    }
    fun()
  </script>
  </center>
</body>
</html>
```

OUTPUT:



RESULT:

The above program has been executed successfully and the output is verified.