Practical No : 01

Aim :-
Write a servlet to determine whether the number is prime or not.

Solution :-

```html
<html>

  <head>

    <title>TODO supply a title</title>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

  </head>

  <body>

    <form action="prime" method="post">

  Enter the Number :- <input type="text" name="txt1" size="20">

<br>

<br>

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


</form>


  </body>
</html>
```

```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.

 */
```

```java
package prime;

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 DELL
 */
public class prime 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
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
```

```java
String n=request.getParameter("txt1");

int number=Integer.parseInt(n);


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

try (PrintWriter out = response.getWriter()) {


    int flag=0;


for(int i=2;i<=(number-1);i++)

{

    if(number%2==0)

    {

        flag=1;

        break;

    }

}



if(flag==0)

{

    out.println("Number is Prime");

}

else

{

    out.println("Number is not prime");

}
```

```
/* 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 prime</title>");

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

out.println("<body>");

out.println("<h1>Servlet prime at " + request.getContextPath() + "</h1>");

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

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

            }

        }

}
```
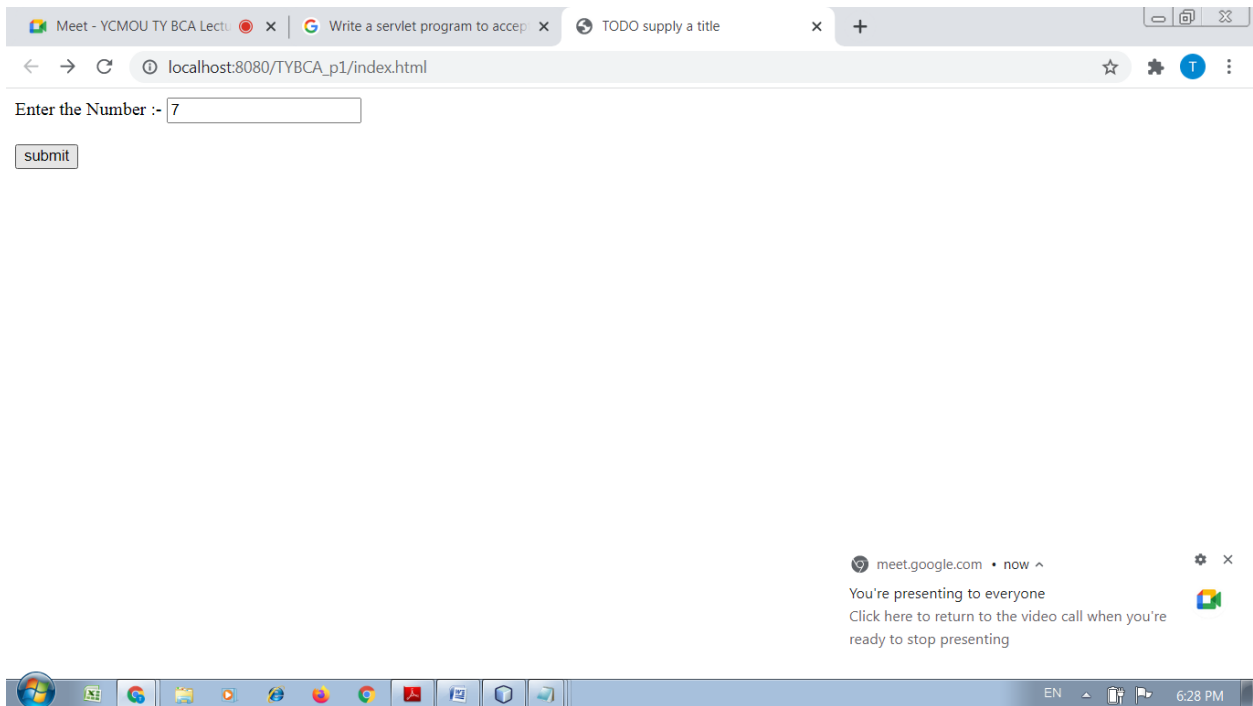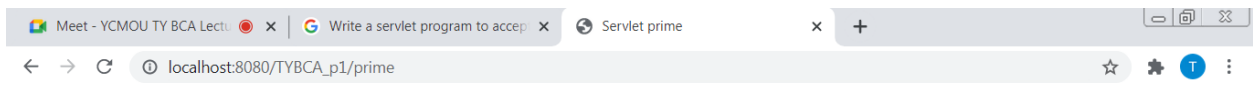
Enter the Number :- 7

submit

Number is Prime

Servlet prime at /TYBCA_p1

Practical No : 02

Aim :-
Write a servlet to determine whether the entered name from the html form is palindrome or not.

Solution :-

```html
<html>
    <head>
        <title>TODO supply a title</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
    </head>
    <body>

        <form action="palin" method="post">
    Enter the String :- <input type="text" name="txt1" size="20">
<br>
<br>
<input type="submit" value="submit" name="submit">


</form>

    </body>
</html>
```

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
```

```java
 * and open the template in the editor.
 */
package palin;

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 DELL
 */
public class palin 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
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```java
        throws ServletException, IOException {

    String name=request.getParameter("txt1");

    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {


        StringBuffer sb=new StringBuffer(name);
        String reverse=sb.reverse().toString();


        if(name.equalsIgnoreCase(reverse))
        {
            out.println("It is a palindrome");
        }
        else
        {
            out.println("It is not a palindrome");
        }

        /* 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 palin</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>Servlet palin at " + request.getContextPath() + "</h1>");
```
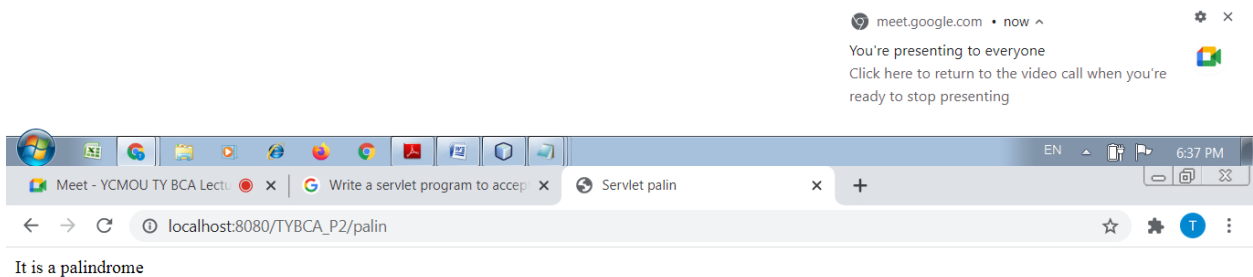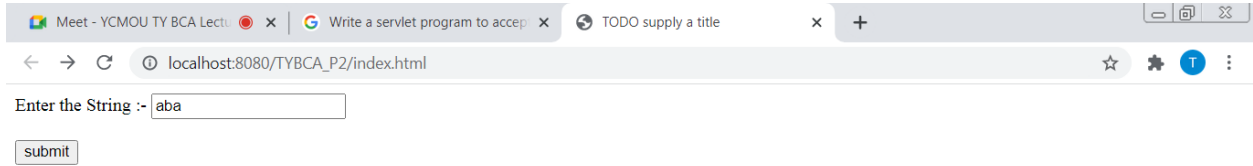
```
        out.println("</body>");

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

    }

}}
```
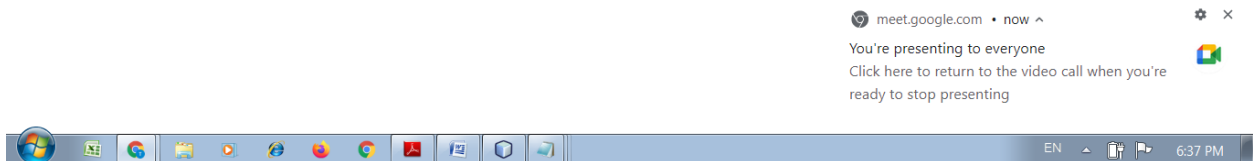
Enter the String :- aba

submit

It is a palindrome

Servlet palin at /TYBCA_P2

Practical No : 03

Aim :-
Write a Servlet program to print all the even numbers between the two entered numbers by the user, let say user enters 5 and 500 , so print the even numbers between 5 and 500

Solution :-

```
<html>

    <head>

        <title>TODO supply a title</title>

        <meta charset="UTF-8">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

    </head>

    <body>


        <form action="prime" method="post">

    Enter the 1st No :- <input type="text" name="txt1" size="20">

<br>

<br>

 Enter the 2nd No :- <input type="text" name="txt2" size="20">

<br>

<br>

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


</form>

    </body>

</html>
```

```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 prime;

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 DELL
 */
public class prime 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
```

```java
    */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {


        String s=request.getParameter("txt1");
        int start=Integer.parseInt(s);
        String s1=request.getParameter("txt2");
        int end=Integer.parseInt(s1);



        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {



            for(int i=start;i<=end;i++)
    {
        if(i%2==0)
        {
            out.println(i+"<br>");
        }
        else
        {

        }
    }
```

```java
        /* 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 prime</title>");

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

        out.println("<body>");

        out.println("<h1>Servlet prime at " + request.getContextPath() + "</h1>");

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

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

    }

}}
```

Enter the 1st No :- 5

Enter the 2nd No :- 500

submit

6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58

Practical No : 04

Aim :-
Write a servlet program to accept a number, if number is even redirect to purplesq.com if number is odd redirect to google.com

Solution :-

```html
<html>

   <head>

     <title>TODO supply a title</title>

     <meta charset="UTF-8">

     <meta name="viewport" content="width=device-width, initial-scale=1.0">

   </head>

   <body>


     <form action="evenodd" method="post">


Enter the Number :- <input type="text" name="txt1" size="20">

<br>

<br>

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

</form>




   </body>

</html>
```

```
/*

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

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package evenodd;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


/**
 *
 * @author DELL
 */
public class evenodd 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
     */
```

```java
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {


    String s=request.getParameter("txt1");

    int n=Integer.parseInt(s);




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

    try (PrintWriter out = response.getWriter()) {




     if(n%2==0)

     {

          out.println(n+"<br>"+"is a even number");

          RequestDispatcher rd = request.getRequestDispatcher("www.purplesq.com");

          rd.include(request, response);

        }

        else

        {

        out.println(n+"<br>"+"is a odd number");

          RequestDispatcher rd = request.getRequestDispatcher("www.google.com");

          rd.include(request, response);

        }



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

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

        out.println("<html>");

        out.println("<head>");

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

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

        out.println("<body>");

        out.println("<h1>Servlet evenodd at " + request.getContextPath() + "</h1>");

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

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

    }

}
```
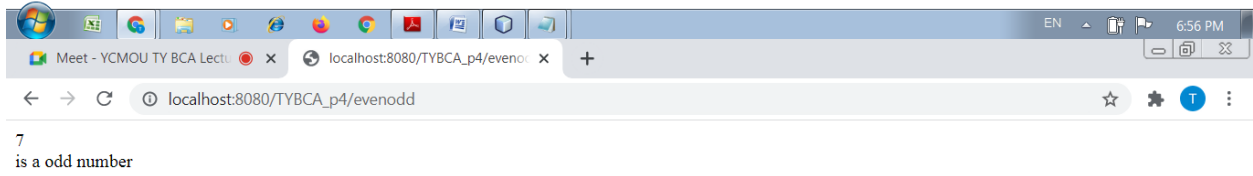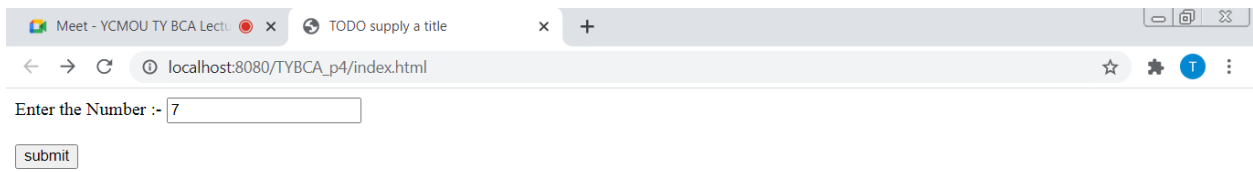
localhost:8080/TYBCA_p4/index.html

Enter the Number :- 7

submit

---

localhost:8080/TYBCA_p4/evenodd

7
is a odd number

Practical No : 05

Aim :-
Write a servlet program to redirect the request to another servlet which requires a String as the parameter
and the other servlet converts the string to lower case.

Solution :-

```html
<html>

  <head>

    <title>TODO supply a title</title>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

  </head>

  <body>


    <form action="conv" method="post">

Enter the String :- <input type="text" name="txt1" size="20">

<br>

<br>

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

</form>




  </body>

</html>
```

```java
/*

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

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package conv;

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 DELL
 */
public class conv 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
     */
    @Override
```

```java
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {


    String s=request.getParameter("txt1");


    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {


        out.println(s.toLowerCase());



        /* 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 conv</title>");

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

        out.println("<body>");

        out.println("<h1>Servlet conv at " + request.getContextPath() + "</h1>");

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

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

Enter the String :- HELLO

submit

hello

Servlet conv at /TYBCA_P5
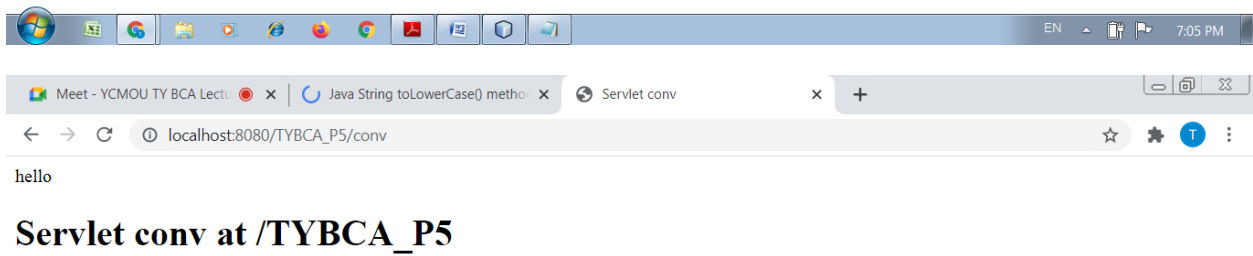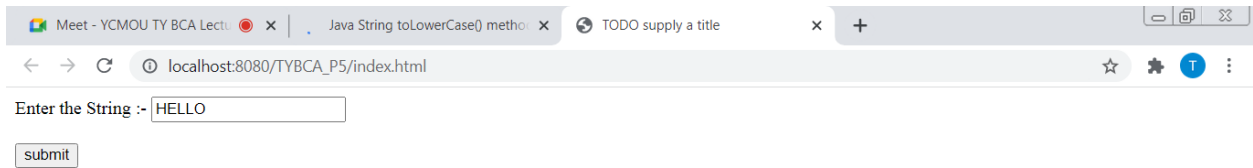
Practical No : 06

Aim :-
Write a Java program to get the name from a html form, put the name in session and redirect the flow to another servlet and the other servlet displays the name put into the session.

Solution :-

```
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>

    <form action="session1" method="post">
Enter the Name :- <input type="text" name="txt1" size="20">
<br>
<br>
<input type="submit" value="submit" name="submit">
</form>

  </body>
</html>
```

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
```

```java
 * and open the template in the editor.
 */

package session1;


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 DELL
 */

public class session1 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
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```java
        throws ServletException, IOException {

    String s=request.getParameter("txt1");


    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {



        out.println("Welcome"+s);



        /* 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 session1</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>Servlet session1 at " + request.getContextPath() + "</h1>");
        out.println("</body>");
        out.println("</html>");
    }
  }
}
```

← → C ⓘ localhost:8080/TYBCA_p6/index.html

Enter the Name :- TYBCA

submit

← → C ⓘ localhost:8080/TYBCA_p6/session1

WelcomeTYBCA

Servlet session1 at /TYBCA_p6

Practical No : 07

Aim :-
Write a JSP code to accept a number and revert whether the number is prime or not.

Solution :-

```html
<html>

    <head>

        <title>TODO supply a title</title>

        <meta charset="UTF-8">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

    </head>

    <body>


        <form action="prime.jsp" method="post">


Enter the Number :- <input type="text" name="txt1" size="20">

<br>

<br>

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

</form>


    </body>

</html>



<%--

    Document   : prime

    Created on : Nov 11, 2021, 7:17:37 PM

    Author     : DELL

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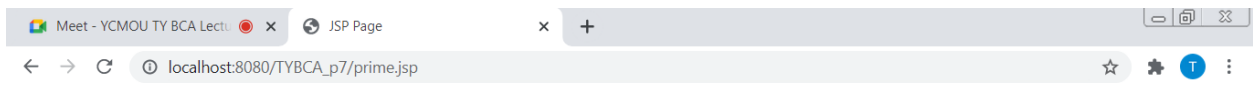
```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>

        <%

String n=request.getParameter("txt1");
        int number=Integer.parseInt(n);



        int flag=0;


    for(int i=2;i<=(number-1);i++)
    {
        if(number%2==0)
        {
            flag=1;
            break;
        }
    }
```

```
        if(flag==0)
        {
            out.println("Number is Prime");
        }
        else
        {
            out.println("Number is not prime");
        }



        %>



    </body>
</html>
```
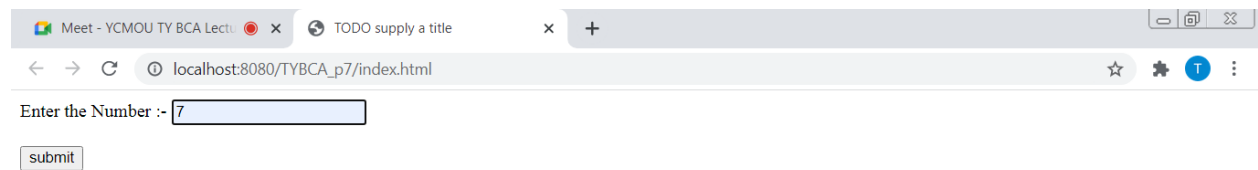
Number is Prime

Practical No : 08

Aim :-
Write a servlet Program to accept a String and determine whether the String"s length is greater than 6.

Solution :-

```html
<html>

   <head>

      <title>TODO supply a title</title>

      <meta charset="UTF-8">

      <meta name="viewport" content="width=device-width, initial-scale=1.0">

   </head>

   <body>

     <form action="len" method="post">
```

Enter the String :- <input type="text" name="txt1" size="20">

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

</form>

   </body>

</html>

```
<%--

   Document   : len

   Created on : Nov 11, 2021, 7:24:17 PM

   Author    : DELL
```

```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 Page</title>

    </head>

    <body>



        <%



String s=request.getParameter("txt1");



int l=s.length();



if(l>=6)

{

   out.println("Length of the string is:"+l);

}

else

{

   out.println("Length of the String is not equals or more than 6. Length :"+l);

}
```

%>

</body>

</html>

Length of the string is:13

Enter the String :- tybca

submit
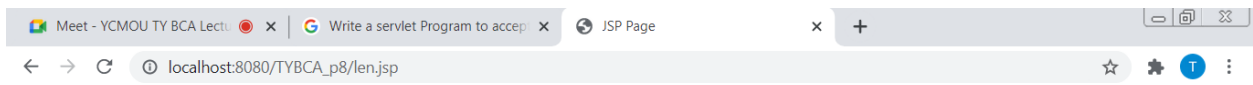
TYBCA

Length of the String is not equals or more than 6. Length :5

Practical No : 08

Aim :-
Write a JSP Program to redirect to Google.com

Solution :-

```jsp
<%--
    Document   : redirect
    Created on : Nov 11, 2021, 7:31:28 PM
    Author     : DELL
--%>

<%@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>

        <%

        // New location to be redirected
        String site = new String("http://www.google.com");
        response.setStatus(response.SC_MOVED_TEMPORARILY);
        response.setHeader("Location", site);

%>
```

```
    </body>

</html>
```