

# CAT E: SERVLET AND JSP

E1- Write a JSP program to check whether entered number is even or odd.

**Code:**

**input.jsp**

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<form action="output.jsp">
```

```
<pre>
```

```
    Enter any no.<input type="text" name="t1"><br>
```

```
    <input type="submit"> <input type="reset">
```

```
</pre>
```

```
</form>
```

```
</body>
```

```
</html>
```

**output.jsp**

```
<%
```

```
    String s=request.getParameter("t1");
```

```
int n=Integer.parseInt(s);

if(n%2==0)

    out.println("<h1>Number is even.");

else

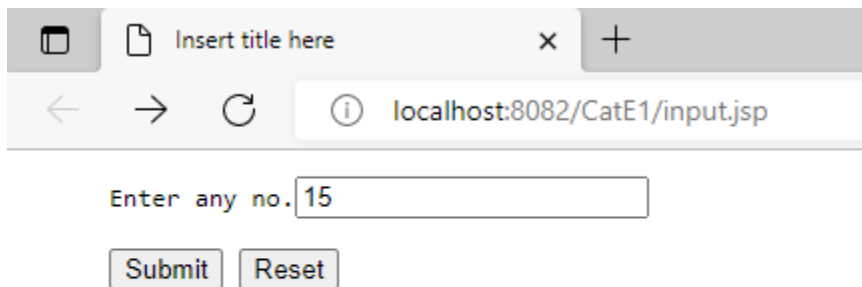
    out.println("<h1>Number is odd.");

%>

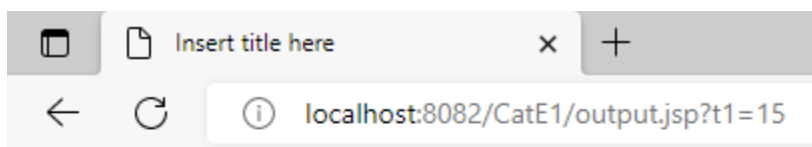
</body>

</html>
```

**Output:**



Enter any no.



**Number is odd.**

E2-Write a JSP program to print table of any number.

**Code:**

**input1.jsp**

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
```

```
    pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<form action=output1.jsp>
```

```
<pre>
```

```
    Enter any no.<input type=text name=t1><br>
```

```
    <input type=submit> <input type=reset>
```

```
</pre>
```

```
</form>
```

```
</body>
```

```
</html>
```

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
```

```
    pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

**output1.jsp**

```
<%
```

```
    String s=request.getParameter("t1");
```

```
    int n=Integer.parseInt(s);
```

```
    for(int i=1;i<=10;i++)
```

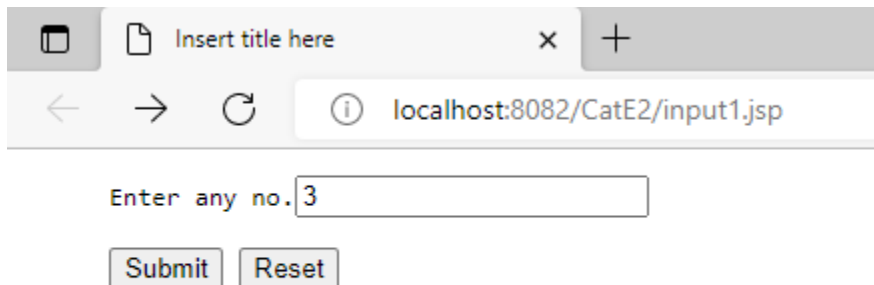
```
        out.println("<h1><b>" + n + "*" + i + "=" + (n*i) + "</h1></b>");
```

```
%>
```

```
</body>
```

```
</html>
```

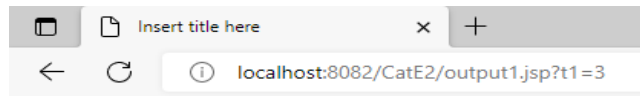
**Output:**



Insert title here

localhost:8082/CatE2/input1.jsp

Enter any no.



**3\*1=3**

**3\*2=6**

**3\*3=9**

**3\*4=12**

**3\*5=15**

**3\*6=18**

**3\*7=21**

**3\*8=24**

**3\*9=27**

**3\*10=30**

E3-Write a JSP program to accept number from user and using servlet perform +, -, \* and /

**Code:**

**input2.jsp**

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
```

```
    pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Insert title here</title>
```

```
</head>

<body>

<form action=SumServlet method=get>

<pre>

    Enter any no.<input type=text name=t1>

    Enter any no.<input type=text name=t2><br>

    <input type=submit> <input type=reset>

</pre>

</form>

</body>

</html>
```

### SumServlet

```
package add;

import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;

/**
 * Servlet implementation class SumServlet
```

```
*/

public class SumServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public SumServlet() {

        super();

        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        // TODO Auto-generated method stub

        String s1=request.getParameter("t1");

        String s2=request.getParameter("t2");

        double n1=Double.parseDouble(s1);

        double n2=Double.parseDouble(s2);

        PrintWriter out=response.getWriter();

        response.setContentType("text/html");
```

```

        out.println("<h1>Addition is "+(n1+n2));

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
    response)
     */

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

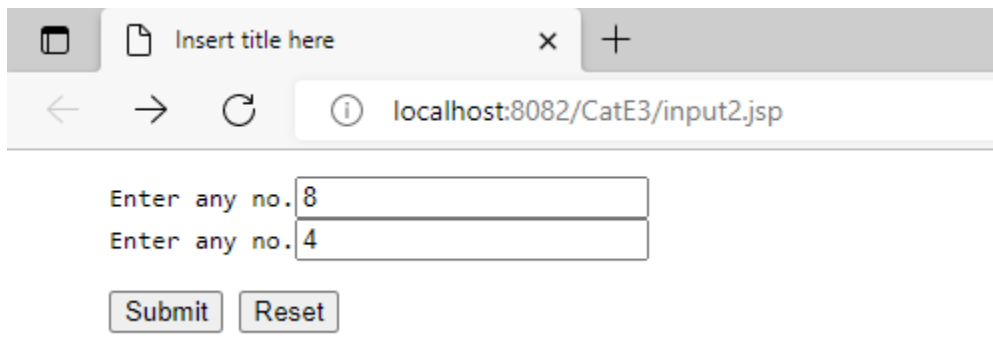
        // TODO Auto-generated method stub

    }

}

```

#### Output:



Enter any no.

Enter any no.

localhost:8082/CatE3/SumServlet?x=8&y=4

# Addition is 12.0



