



**MUMBAI EDUCATIONAL  
TRUST**  
MET INSTITUTE OF COMPUTER SCIENCE



Program Number:	10
Roll Number:	1552
Title of Program:	JSP 3
Objective:	To design a Simple Number Guessing Application in JSP

## **Source Code:**

### **Start.jsp:**

```
<%@ page language="java"%>
<html>
  <body>
    <form action="NextGuess.jsp">
      <h1>Select a number between 0-99</h1><br>
      <h2>Let me guess !!!</h2>
      <input type="submit" name="btnOk" value="ok">
      <input type="hidden" name="lo" value="0">
      <input type="hidden" name="hi" value="100">
      <input type="hidden" name="cnt" value="1">
    </form>
  </body>
</html>
```

## NextGuess.jsp:

```
<%@ page language="java"%>
<html>
    <body>
        <%! int guess=0; %>
        <%
            //fetch the hiddden form field from previous page
            int hi=Integer.parseInt(request.getParameter("hi"));
            int lo=Integer.parseInt(request.getParameter("lo"));
            int cnt=Integer.parseInt(request.getParameter("cnt"));
            guess=(hi+lo)/2;
        %>
        <form action="CheckResult.jsp">
            <h1>My Guess no <%=cnt%> is : <%=guess %></h1>
            <br>
            <h1>How is my guess ???</h1>
            <br>
            <input type="radio" name="guesser" value="high"
onClick="submit()">Too High
            <input type="radio" name="guesser" value="low"
onClick="submit()">Too Low
            <input type="radio" name="guesser" value="perfect"
onClick="submit()"> Perfect
            <input type="hidden" name="hi" value="<%=hi %>">
            <input type="hidden" name="lo" value="<%=lo %>">
            <input type="hidden" name="cnt" value="<%=++cnt %>">
        </form>
    </body>
</html>
```

## CheckResult.jsp:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!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=ISO-8859-1" />
<title>Insert title here</title>
</head>
<body>

    <%
        //fetch the hidden form field from previous page
        int hi=Integer.parseInt(request.getParameter("hi"));
        int lo=Integer.parseInt(request.getParameter("lo"));
        int cnt=Integer.parseInt(request.getParameter("cnt"));
        String action =request.getParameter("guesser");
        int guess=(lo+hi)/2;

        //check the option given by user
        if(action.equals("perfect"))
        {
    %>
        <jsp:forward page="Winner.jsp">
            <jsp:param value="<%=cnt %>" name="cnt"></jsp:param>

        </jsp:forward>
    %>
        }
        else if(hi<=lo || lo>=hi)
        {
    %>
        <jsp:forward page="Cheater.jsp"/>
    %>
        }
        if(action.equals("low"))
        {
            lo=guess;
```

```
        }
    else
    {
        hi=guess;
    }
%>
<jsp:forward page="NextGuess.jsp">
    <jsp:param value="<%=cnt %>" name="++cnt"></jsp:param>
    <jsp:param value="<%=hi %>" name="hi"></jsp:param>
    <jsp:param value="<%=lo %>" name="lo"></jsp:param>
</jsp:forward>
<%

%>

</body>
</html>
```

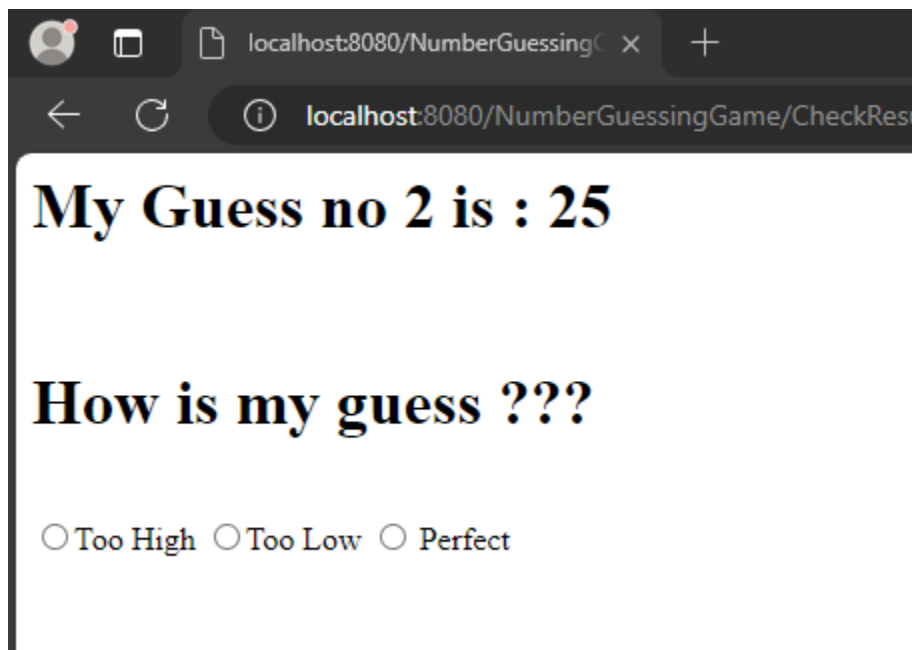
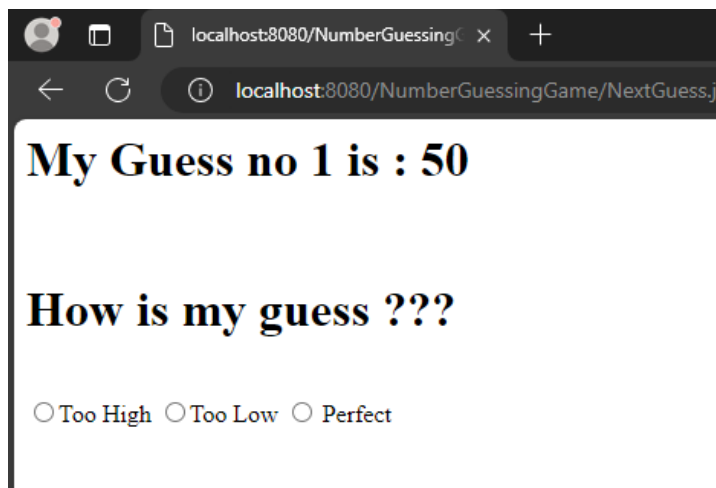
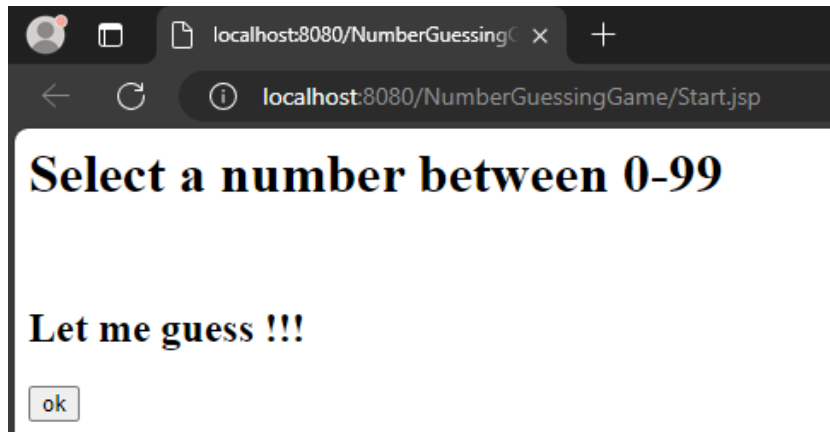
## **Winner.jsp:**

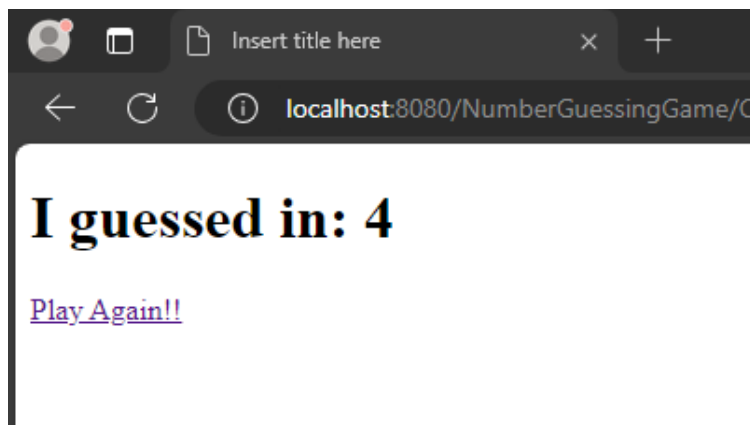
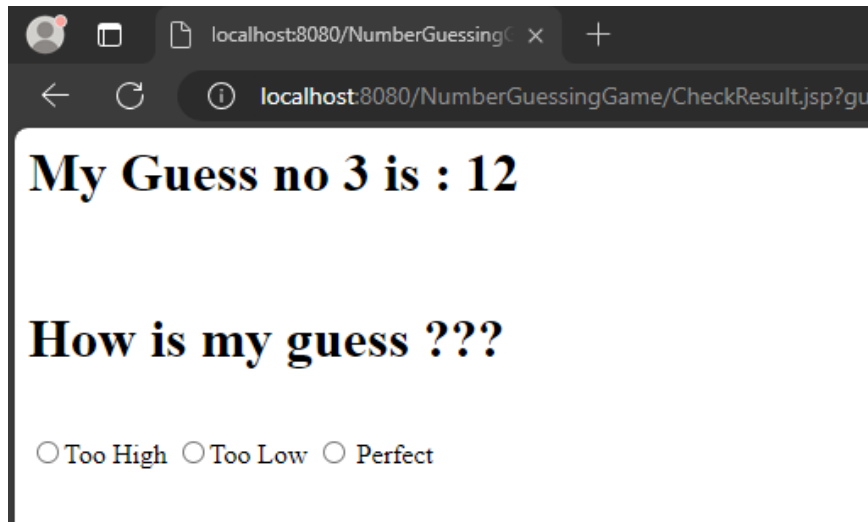
```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Insert title here</title>
</head>
<body>
    <% String cnt=request.getParameter("cnt"); %>
    <h1>I guessed in: <%=cnt %></h1>
    <a href="Start.jsp">Play Again!!</a>
</body>
</html>
```

## **Cheater.jsp:**

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!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=ISO-8859-1" />
<title>Insert title here</title>
</head>
<body>
    <h1>You are a Cheater!!!</h1>
</body>
</html>
```

## Output:





Cheater Output:

