

SERVLET SIMPLE CALCULATION PROGRAM:

INDEX.HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Marks Calculation</title>
</head>
<body>
  <h1>Calculate Average Marks</h1>
  <form action="calculateMarks" method="post">
    <label for="rollNo">Roll Number:</label>
    <input type="text" name="rollNo" required placeholder="Enter Roll Number" /><br/><br/>

    <label for="mark1">Mark 1:</label>
    <input type="number" name="mark1" required placeholder="Enter First Mark"
  /><br/><br/>

    <label for="mark2">Mark 2:</label>
    <input type="number" name="mark2" required placeholder="Enter Second Mark">
  <br/><br/>

    <input type="submit" value="Calculate Average" />
  </form>
</body>
</html>
```

STUDENTMARKJAVA

```
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
```

```

import javax.servlet.http.HttpServletResponse;

@WebServlet("/calculateMarks")
public class StudentMark extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        String rollNo = request.getParameter("rollNo");
        double mark1 = Double.parseDouble(request.getParameter("mark1"));
        double mark2 = Double.parseDouble(request.getParameter("mark2"));

        double average = (mark1 + mark2) / 2;

        response.setContentType("text/html");
        response.getWriter().println("<h1>Student Roll No: " + rollNo + "</h1>");
        response.getWriter().println("<h2>Average Marks: " + average + "</h2>");
    }
}

```

WEB.XML

```

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
        http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
    version="3.1">
    <servlet>
        <servlet-name>StudentMark</servlet-name>
        <servlet-class>StudentMark</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>StudentMark</servlet-name>
        <url-pattern>/calculateMarks</url-pattern>
    </servlet-mapping>
</web-app>

```

OUTPUT:

The image displays two screenshots of a web browser window. The top screenshot shows the 'Calculate Average Marks' form with the following inputs: Roll Number: 17, Mark 1: 80, and Mark 2: 90. The 'Calculate Average' button is visible. The bottom screenshot shows the result of the calculation: Student Roll No: 17 and Average Marks: 85.0.

Calculate Average Marks

Roll Number:

Mark 1:

Mark 2:

Student Roll No: 17

Average Marks: 85.0