

# BMI CALCULATOR

## 1.Input.html:

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>BMI Calculator</title>
    <style type="text/css">
        /* Reset some default styles */
        body, h1, form, label, input, button {
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }

        /* General Styles */
        body {
            font-family: Arial, sans-serif;
            background-color: aqua;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
        }

        /* Container Styles */
        .container {
            background: pink;
```

```
padding: 20px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

width: 300px;

text-align: center;

}

h1 {

margin-bottom: 20px;

color: blue;

}

/* Form Styles */

form {

display: flex;

flex-direction: column;

gap: 15px;

}

label {

font-weight: bold;

color: red;

}

input[type="number"] {

padding: 10px;

border: 1px solid #ddd;

border-radius: 4px;

font-size: 16px;

}

button {

padding: 10px;

border: none;

border-radius: 4px;

background-color: black;
```

```

        color: white;

        font-size: 16px;

        cursor: pointer;

        transition: background-color 0.3s ease;
    }
    button:hover {
        background-color: #0056b3;
    }
    #result {
        margin-top: 20px;
    }
    #bmi-value {
        font-weight: bold;
        color: #007bff;
    }
</style>
</head>
<body>
    <div class="container">
        <h1>BMI Calculator</h1>
        <form action="bmicalculator" method="post">
            <label for="weight">Weight (kg):</label>
            <input type="number" id="weight" name="weight" step="0.1" required>
            <label for="height">Height (cm):</label>
            <input type="number" id="height" name="height" step="0.1" required>
            <button type="submit">Calculate BMI</button>
        </form>
        <div id="result">
            <p>Your BMI is: <span id="bmi-value">--</span></p>
        </div>
    </div>

```

</body>

</html>

## 2.bmicalculator.Servlet:

```
package P1;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class bmicalculator
 */
@WebServlet("/bmicalculator")
public class bmicalculator extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public bmicalculator() {
        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
```

```
    response.getWriter().append("Served at: ").append(request.getContextPath());
```

```
}
```

```
/**
```

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

```
 */
```

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

```
    double weight = Double.parseDouble(request.getParameter("weight"));
```

```
    double heightCm = Double.parseDouble(request.getParameter("height"));
```

```
    PrintWriter pw=response.getWriter();
```

```
    double heightM = heightCm / 100;
```

```
    double bmi = weight / (heightM * heightM);
```

```
    if (bmi < 18.5) {
```

```
        pw.println("<h1>"+ "You are underweight" + " " + bmi + "</h1>");
```

```
    }
```

```
    else if (bmi < 24.9) {
```

```
        pw.println("<h1>"+ "You have a normal weight" + " " + bmi + "</h1>");
```

```
    }
```

```
    else if (bmi < 29.9) {
```

```
        pw.println("<h1>"+ "You are overweight" + " " + bmi + "</h1>");
```

```
    }
```

```
    else if(bmi > 40){
```

```
        pw.println("<h1>"+ "You are obese" + " " + bmi + "</h1>");
```

```
    }
```

```
    else {
```

```
pw.println("<h1>"+ "Invalid" + "</h1>");
```

```
}
```

```
request.setAttribute("bmi", String.format("%.2f", bmi));
```

```
}
```

```
}
```

← → ↻ 🔍 localhost:8082/BMCalculator/input.jsp ☆ 🌐 ⋮

### BMI Calculator

Weight (kg):

Height (cm):

Calculate BMI

Your BMI is: --

localhost:8082/BMCalculator/bmi x +

← → ↻ 🔍 localhost:8082/BMCalculator/bmicalculator ☆ 🌐 ⋮

**You have a normal weight 23.437499999999996**

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