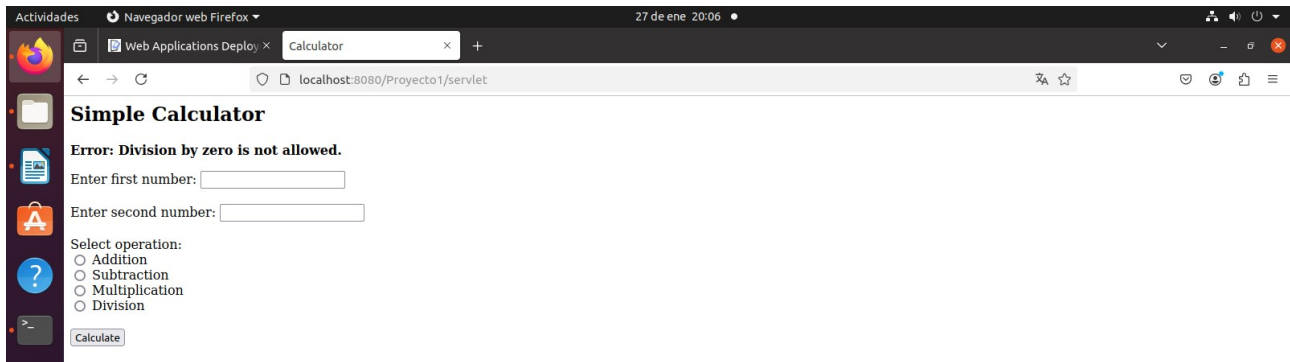


# Calculator



## ***My code:***

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
import javax.servlet.http.*;
```

```
public class MiServlet extends HttpServlet {
```

```
    @Override
```

```
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
        showCalculatorForm(response, "");
```

```
    }
```

```
    @Override
```

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

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

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

```
        String num1Str = request.getParameter("num1");
```

```
String num2Str = request.getParameter("num2");
String operation = request.getParameter("operation");
String resultMessage = "";

try {
    double num1 = Double.parseDouble(num1Str);
    double num2 = Double.parseDouble(num2Str);

    switch (operation) {
        case "add":
            resultMessage = "Result: " + (num1 + num2);
            break;
        case "subtract":
            resultMessage = "Result: " + (num1 - num2);
            break;
        case "multiply":
            resultMessage = "Result: " + (num1 * num2);
            break;
        case "divide":
            if (num2 == 0) {
                resultMessage = "Error: Division by zero is not allowed.";
            } else {
                resultMessage = "Result: " + (num1 / num2);
            }
            break;
        default:
            resultMessage = "Error: Invalid operation.";
    }
} catch (NumberFormatException e) {
```

```
        resultMessage = "Error: Please enter valid numbers.";
    }
```

```
    showCalculatorForm(response, resultMessage);
}
```

```
private void showCalculatorForm(HttpServletResponse response, String resultMessage) throws
IOException {
```

```
    PrintWriter out = response.getWriter();
    response.setContentType("text/html");
```

```
    out.println("<html>");
    out.println("<head><title>Calculator</title></head>");
    out.println("<body>");
    out.println("<h2>Simple Calculator</h2>");
```

```
    if (!resultMessage.isEmpty()) {
        out.println("<p><strong>" + resultMessage + "</strong></p>");
    }
```

```
    out.println("<form method='post' action=''>");
    out.println("<label for='num1'>Enter first number:</label>");
    out.println("<input type='text' id='num1' name='num1' required><br><br>");
```

```
    out.println("<label for='num2'>Enter second number:</label>");
    out.println("<input type='text' id='num2' name='num2' required><br><br>");
```

```
    out.println("<label>Select operation:</label><br>");
```

```
    out.println("<input type='radio' id='add' name='operation' value='add' required> <label
for='add'>Addition</label><br>");
```

```
        out.println("<input type='radio' id='subtract' name='operation' value='subtract'> <label  
for='subtract'>Subtraction</label><br>");  
  
        out.println("<input type='radio' id='multiply' name='operation' value='multiply'> <label  
for='multiply'>Multiplication</label><br>");  
  
        out.println("<input type='radio' id='divide' name='operation' value='divide'> <label  
for='divide'>Division</label><br><br>");  
  
        out.println("<button type='submit'>Calculate</button>");  
        out.println("</form>");  
        out.println("</body>");  
        out.println("</html>");  
    }  
}
```