

Code:

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

public class MiServlet extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter impresor = response.getWriter();

        // Retrieve parameters from the request
        String num1 = request.getParameter("num1");
        String num2 = request.getParameter("num2");
        String operation = request.getParameter("operation");

        double result = 0;
        String errorMessage = null;

        try {
            if (num1 != null && num2 != null && operation != null) {
                double number1 = Double.parseDouble(num1);
                double number2 = Double.parseDouble(num2);

                // Perform the selected operation
                switch (operation) {
                    case "add":
                        result = number1 + number2;
                        break;
                    case "subtract":
                        result = number1 - number2;
                        break;
                    case "multiply":
                        result = number1 * number2;
                        break;
                    case "divide":
                        if (number2 == 0) {
                            errorMessage = "Error: Division by zero is not allowed.";
                        } else {
                            result = number1 / number2;
                        }
                        break;
                    default:
                        errorMessage = "Invalid operation.";
                }
            }
        } catch (NumberFormatException e) {
```

```

        errorMessage = "Error: Invalid input. Please enter valid numbers.";
    }

    // Generate HTML form and result display
    impresor.println("<html>");
    impresor.println("<head><title>Calculator</title></head>");
    impresor.println("<body>");
    impresor.println("<h1>Calculator</h1>");
    impresor.println("<form method='get'>");
    impresor.println("<label>Number 1: <input type='text' name='num1' value='" +
(num1 != null ? num1 : "") + "'></label><br>");
    impresor.println("<label>Number 2: <input type='text' name='num2' value='" +
(num2 != null ? num2 : "") + "'></label><br>");
    impresor.println("<label><input type='radio' name='operation' value='add' " +
("add".equals(operation) ? "checked" : "") + "> Add</label><br>");
    impresor.println("<label><input type='radio' name='operation' value='subtract' " +
("subtract".equals(operation) ? "checked" : "") + "> Subtract</label><br>");
    impresor.println("<label><input type='radio' name='operation' value='multiply' " +
("multiply".equals(operation) ? "checked" : "") + "> Multiply</label><br>");
    impresor.println("<label><input type='radio' name='operation' value='divide' " +
("divide".equals(operation) ? "checked" : "") + "> Divide</label><br>");
    impresor.println("<button type='submit'>Calculate</button>");
    impresor.println("</form>");

    // Display result or error message
    if (errorMessage != null) {
        impresor.println("<p style='color: red;'>" + errorMessage + "</p>");
    } else if (num1 != null && num2 != null && operation != null) {
        impresor.println("<p>Result: " + result + "</p>");
    }
}

impresor.println("</body>");
impresor.println("</html>");
}
}

```

Example:

