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Assigment no 6

Assignment title: .Create an applet to showcase web application operations. When any button is pressed, the corresponding operation is performed and the result is displayed in Brower.

import java.applet.Applet;

import java.awt.\*;

import java.awt.event.\*;

public class CalculatorApplet extends Applet implements ActionListener {

    // Declare UI components

    TextField num1Field, num2Field, resultField;

    Button addButton, subtractButton, multiplyButton, divideButton;

    public void init() {

        // Set layout for the applet

        setLayout(new FlowLayout());

        // Create TextFields for number inputs and result display

        num1Field = new TextField(10);

        num2Field = new TextField(10);

        resultField = new TextField(10);

        resultField.setEditable(false); // Make result field read-only

        // Create buttons for operations

        addButton = new Button("Add");

        subtractButton = new Button("Subtract");

        multiplyButton = new Button("Multiply");

        divideButton = new Button("Divide");

        // Add components to the applet

        add(new Label("Number 1:"));

        add(num1Field);

        add(new Label("Number 2:"));

        add(num2Field);

        add(new Label("Result:"));

        add(resultField);

        // Add buttons to the applet

        add(addButton);

        add(subtractButton);

        add(multiplyButton);

        add(divideButton);

        // Register the applet as the action listener for the buttons

        addButton.addActionListener(this);

        subtractButton.addActionListener(this);

        multiplyButton.addActionListener(this);

        divideButton.addActionListener(this);

    }

    // Action listener method to handle button clicks

    public void actionPerformed(ActionEvent e) {

        // Get the numbers from the text fields

        try {

            double num1 = Double.parseDouble(num1Field.getText());

            double num2 = Double.parseDouble(num2Field.getText());

            double result = 0;

            // Perform the corresponding operation based on the button clicked

            if (e.getSource() == addButton) {

                result = num1 + num2;

            } else if (e.getSource() == subtractButton) {

                result = num1 - num2;

            } else if (e.getSource() == multiplyButton) {

                result = num1 \* num2;

            } else if (e.getSource() == divideButton) {

                if (num2 != 0) {

                    result = num1 / num2;

                } else {

                    resultField.setText("Cannot divide by zero");

                    return;

                }

            }

            // Display the result in the result text field

            resultField.setText(String.valueOf(result));

        } catch (NumberFormatException ex) {

            // Handle invalid input

            resultField.setText("Invalid input");

        }

    }

}

HTML CODE

<!DOCTYPE html>

<html>

<head>

    <title>Calculator Applet</title>

</head>

<body>

    <h1>Simple Calculator</h1>

    <applet code="CalculatorApplet.class" width="300" height="200">

        <param name="codebase" value="." />

    </applet>

</body>

</html>