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**ROLL NO:24**

**BATCH : B2**

**COURSE: OOPs PRACTICAL**

**Assginment No. 8**

**Problem Statement :** Create an applet with three text fields and four buttons add, subtract, multiply and divide. User will enter two values in the Text Fields.When any button is pressed, the corresponding operations is performed and the result is displayed in the third text Fields

**Code:**

CalcApp.java

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

public class CalcApp extends Applet implements ActionListener {

    TextField t1, t2, t3;

    Button addButton, subButton, mulButton, divButton;

    public void init() {

        setBackground(Color.cyan);

        t1 = new TextField(10);

        t2 = new TextField(10);

        t3 = new TextField(10);

        t1.setFont(new Font("Arial", Font.PLAIN, 14));

        t2.setFont(new Font("Arial", Font.PLAIN, 14));

        t3.setFont(new Font("Arial", Font.PLAIN, 14));

        t3.setEditable(false);

        addButton = new Button("Add");

        subButton = new Button("Substract");

        mulButton = new Button("Multiply");

        divButton = new Button("Divide");

        addButton.setBounds(50, 100, 80, 50);

        addButton.setBounds(70, 100, 80, 50);

        addButton.setBounds(90, 100, 80, 50);

        addButton.setBounds(110, 100, 80, 50);

        add(new Label("Enter the value 1:"));

        add(t1);

        add(new Label("Enter the value 2:"));

        add(t2);

        add(new Label("Result:"));

        add(t3);

        add(addButton);

        add(subButton);

        add(mulButton);

        add(divButton);

        addButton.addActionListener(this);

        subButton.addActionListener(this);

        mulButton.addActionListener(this);

        divButton.addActionListener(this);

    }

    public void actionPerformed(ActionEvent a) {

        int num1 = 0, num2 = 0, result = 0;

        try {

            num1 = Integer.parseInt(t1.getText());

            num2 = Integer.parseInt(t2.getText());

        } catch (NumberFormatException ex) {

            t3.setText("Invalid Input");

            return;

        }

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

            result = num1 + num2;

        } else if (a.getSource() == subButton) {

            result = num1 - num2;

        } else if (a.getSource() == mulButton) {

            result = num1 \* num2;

        } else if (a.getSource() == divButton) {

            if (num2 != 0) {

                result = num1 / num2;

            } else {

                t3.setText("Error:Division By zero.");

                return;

            }

        }

        t3.setText(String.valueOf(result));

        System.out.println("Result:" + result);

    }

}

assi8.html

<html>

<body>

    <applet code="CalcApp.class" width="300" height="300">

    </applet>

</body>

</html>

**Output :**

PS C:\Users\ADMIN\Desktop\OOPS\JAVA>javac CalcApp.java

PS C:\Users\ADMIN\Desktop\OOPS\JAVA>appletviewer assi8.html

