

## **1.swingDemo.java**

```
import javax.swing.*;
import java.awt.FlowLayout;
public class swingDemo {
    public static void main(String args[]) {
        JFrame f=new JFrame("User Form");
        f.setVisible(true);
        f.setSize(400,400);
        f.setLayout(new FlowLayout());
        JLabel l1=new JLabel("User Name:");
        f.add(l1);
        JTextField t1=new JTextField(20);
        f.add(t1);
        JLabel l2=new JLabel("Password:");
        f.add(l2);
        JPasswordField t2=new JPasswordField(20);
        f.add(t2);
        JButton b=new JButton("Submit");
        f.add(b);
    }
}
```

## 2. MouseEventDemo.java

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class MouseEventDemo extends JFrame implements MouseListener {

    private JLabel label;
    private JPanel panel;

    public MouseEventDemo() {
        super("Mouse Event Demo");
        setLayout(new FlowLayout());
        label = new JLabel("No mouse event detected");
        panel = new JPanel();
        panel.setPreferredSize(new Dimension(200, 200));
        panel.setBackground(Color.WHITE);
        panel.addMouseListener(this);
        add(label);
        add(panel);
    }

    public void mouseClicked(MouseEvent event) {
        label.setText("Mouse clicked");
    }

    public void mousePressed(MouseEvent event) {
        label.setText("Mouse pressed");
    }

    public void mouseReleased(MouseEvent event) {
        label.setText("Mouse released");
    }
}
```

```
}  
  
public void mouseEntered(MouseEvent event) {  
    label.setText("Mouse entered");  
}  
  
public void mouseExited(MouseEvent event) {  
    label.setText("Mouse exited");  
}  
  
public static void main(String[] args) {  
    MouseEventDemo form = new MouseEventDemo();  
    form.setSize(300, 150);  
    form.setVisible(true);  
    form.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
}  
}
```

### 3. KeyboardEventExample.java

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class KeyboardEventExample extends JFrame implements KeyListener {
    private JTextField textField;

    public KeyboardEventExample() {
        super("Keyboard Event Example");
        textField = new JTextField(20);
        textField.addKeyListener(this);
        add(textField);
    }

    public void keyPressed(KeyEvent e) {
        System.out.println("Key Pressed: " + e.getKeyChar());
    }

    public void keyReleased(KeyEvent e) {
        System.out.println("Key Released: " + e.getKeyChar());
    }

    public void keyTyped(KeyEvent e) {
        System.out.println("Key Typed: " + e.getKeyChar());
    }

    public static void main(String[] args) {
        KeyboardEventExample form = new KeyboardEventExample();
        form.setSize(300, 100);
        form.setVisible(true);
        form.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

#### 4. StudentInfoForm.java

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class StudentInfoForm extends JFrame implements ActionListener {

    private JLabel nameLabel, emailLabel, classLabel, sectionLabel,
    collegeLabel, branchLabel;

    private JTextField nameField, emailField, classField, sectionField,
    collegeField, branchField;

    private JButton submitButton;

    public StudentInfoForm() {

        super("Student Information Form");
        setLayout(new GridLayout(7, 2));

        nameLabel = new JLabel("Name: ");
        emailLabel = new JLabel("E-mail: ");
        classLabel = new JLabel("Class: ");
        sectionLabel = new JLabel("Section: ");
        collegeLabel = new JLabel("College: ");
        branchLabel = new JLabel("Branch: ");
        nameField = new JTextField(20);
        emailField = new JTextField(20);
        classField = new JTextField(20);
        sectionField = new JTextField(20);
        collegeField = new JTextField(20);
        branchField = new JTextField(20);
        submitButton = new JButton("Submit");
        submitButton.addActionListener(this);
```

```
add(nameLabel);
add(nameField);
add(emailLabel);
add(emailField);
add(classLabel);
add(classField);
add(sectionLabel);
add(sectionField);
add(collegeLabel);
add(collegeField);
add(branchLabel);
add(branchField);
add(submitButton);
}

public void actionPerformed(ActionEvent event) {
    String name = nameField.getText();
    String email = emailField.getText();
    String classa = classField.getText();
    String section = sectionField.getText();
    String college = collegeField.getText();
    String branch = branchField.getText();
    System.out.println("Name: " + name);
    System.out.println("E-mail: " + email);
    System.out.println("Class: " + classa);
    System.out.println("Section: " + section);
    System.out.println("College: " + college);
```

```
        System.out.println("Branch: " + branch);
    }
    public static void main(String[] args) {
        StudentInfoForm form = new StudentInfoForm();
        form.setSize(400, 300);
        form.setVisible(true);
        form.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

## 5.calculator.java

```
import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

public class calculator extends JFrame implements ActionListener {

    Container c = getContentPane();

    JLabel l1= new JLabel(" First Number");

    JLabel l2 = new JLabel("Second Number");

    JLabel result = new JLabel();

    JTextField t1 = new JTextField(20);

    JTextField t2= new JTextField(20);

    JButton add = new JButton("add");

    JButton subtract = new JButton("subtract");

    JButton multiply = new JButton("multiply");

    JButton divide = new JButton("divide");

    public calculator(){

        super("Calculator");

        setSize(300,300);

        c.setLayout(new FlowLayout());

        c.add(l1);

        c.add(t1);

        c.add(l2);

        c.add(t2);

        c.add(add);

        c.add(subtract);

        c.add(multiply);
```



```
c.add(divide);
c.add(result);
add.addActionListener(this);
subtract.addActionListener(this);
multiply.addActionListener(this);
divide.addActionListener(this);
}
@Override
public void actionPerformed(ActionEvent e) {
    Object source = e.getSource();
    if(source == add){
        String ans1 = t1.getText();
        int num1 = Integer.parseInt(ans1);
        String ans2 = t2.getText();
        int num2 = Integer.parseInt(ans2);
        int RESULT = num1 + num2;
        String res = new Integer(RESULT).toString();
        result.setText("The result is equal to " + res);
    }
    if(source == subtract){
        String ans1 = t1.getText();
        int num1 = Integer.parseInt(ans1);
        String ans2 = t2.getText();
        int num2 = Integer.parseInt(ans2);
        int RESULT = num1 - num2;
        String res = new Integer(RESULT).toString();
```

```

        result.setText("The result is equal to " + res);
    }if(source == multiply){
        String ans1 = t1.getText();
        int num1 = Integer.parseInt(ans1);
        String ans2 = t2.getText();
        int num2 = Integer.parseInt(ans2);
        int RESULT = num1 * num2;
        String res = new Integer(RESULT).toString();
        result.setText("The result is equal to " + res);
    }  if(source == divide){
        String ans1 = t1.getText();
        double num1 = Double.parseDouble(ans1);
        String ans2 = t2.getText();
        double num2 = Double.parseDouble(ans2);
        Double RESULT = num1 / num2;
        String res = new Double (RESULT).toString();
        result.setText("The result is equal to " + res);
    }
}

public static void main(String[] args){
    calculator demo = new calculator();
    demo.setVisible(true);
    demo.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
}

```

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