

Assignment: 7

Implement a program to illustrate use of various swing components.

```
package project;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class SwingComponentsExample {

    public static void main(String[] args) {
        // Create the main JFrame
        JFrame frame = new JFrame("Swing Components Example");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setSize(400, 400);
        frame.setLayout(new FlowLayout());

        // Add JLabel and JTextField for Name
        JLabel nameLabel = new JLabel("Enter your name:");
        JTextField nameField = new JTextField(20);
        frame.add(nameLabel);
        frame.add(nameField);

        // Add JCheckBox
        JCheckBox subscribeCheckBox = new JCheckBox("Subscribe to Newsletter");
        frame.add(subscribeCheckBox);

        // Add JRadioButtons for Gender
        JLabel genderLabel = new JLabel("Select your gender:");
        JRadioButton maleButton = new JRadioButton("Male");
        JRadioButton femaleButton = new JRadioButton("Female");
        ButtonGroup genderGroup = new ButtonGroup();
        genderGroup.add(maleButton);
        genderGroup.add(femaleButton);
        frame.add(genderLabel);
        frame.add(maleButton);
        frame.add(femaleButton);

        // Add JComboBox for Country Selection
        JLabel countryLabel = new JLabel("Select your country:");
        String[] countries = {"India", "USA", "UK", "Canada"};
        JComboBox<String> countryComboBox = new JComboBox<>(countries);
        frame.add(countryLabel);
        frame.add(countryComboBox);

        // Add JTextArea to display output
        JTextArea outputArea = new JTextArea(5, 30);
        outputArea.setEditable(false);
        JScrollPane scrollPane = new JScrollPane(outputArea);
        frame.add(scrollPane);

        // Add JButton
        JButton submitButton = new JButton("Submit");
        frame.add(submitButton);

        // Add ActionListener for Submit Button
        submitButton.addActionListener(new ActionListener() {
```

```

@Override
public void actionPerformed(ActionEvent e) {
    String name = nameField.getText();
    String gender = maleButton.isSelected()? "Male": (femaleButton.isSelected()
        ? "Female" : "Not Selected");
    boolean isSubscribed = subscribeCheckBox.isSelected();
    String country = (String) countryComboBox.getSelectedItem();

    // Display the collected input in the JTextArea
    outputArea.setText("Name: " + name + "\n"
        + "Gender: " + gender + "\n"
        + "Subscribed: " + (isSubscribed ? "Yes" : "No") + "\n"
        + "Country: " + country);
}
});

// Set frame visibility
frame.setVisible(true);
}
}

```

Output:

Swing Components Example

Enter your name:

☐ Subscribe to Newsletter Select your gender: ☐ Male

☒ Female Select your country:

Name: nikita
Gender: Female
Subscribed: No
Country: India

Submit