import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class MultipleChoiceApplet extends JApplet implements ActionListener {

private JRadioButton[] optionsA, optionsB, optionsC, optionsD;

private ButtonGroup[] buttonGroups;

private JButton submitButton;

public void init() {

// Set up the layout

setLayout(new GridLayout(6, 1)); // 5 questions + 1 submit button

// Initialize arrays for radio buttons and button groups

optionsA = new JRadioButton[5];

optionsB = new JRadioButton[5];

optionsC = new JRadioButton[5];

optionsD = new JRadioButton[5];

buttonGroups = new ButtonGroup[5];

// Create radio buttons for the options for each question

for (int i = 0; i < 5; i++) {

optionsA[i] = new JRadioButton("Option A");

optionsB[i] = new JRadioButton("Option B");

optionsC[i] = new JRadioButton("Option C");

optionsD[i] = new JRadioButton("Option D");

buttonGroups[i] = new ButtonGroup();

buttonGroups[i].add(optionsA[i]);

buttonGroups[i].add(optionsB[i]);

buttonGroups[i].add(optionsC[i]);

buttonGroups[i].add(optionsD[i]);

}

// Create a submit button

submitButton = new JButton("Submit");

submitButton.addActionListener(this);

// Add components to the applet

for (int i = 0; i < 5; i++) {

JPanel questionPanel = new JPanel(new GridLayout(1, 4));

questionPanel.add(optionsA[i]);

questionPanel.add(optionsB[i]);

questionPanel.add(optionsC[i]);

questionPanel.add(optionsD[i]);

add(questionPanel);

}

add(submitButton);

}

public void actionPerformed(ActionEvent e) {

// Handle button click event

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

StringBuilder result = new StringBuilder("Selected options:\n");

// Determine which options are selected for each question

for (int i = 0; i < 5; i++) {

if (optionsA[i].isSelected()) {

result.append("Question ").append(i + 1).append(": Option A\n");

} else if (optionsB[i].isSelected()) {

result.append("Question ").append(i + 1).append(": Option B\n");

} else if (optionsC[i].isSelected()) {

result.append("Question ").append(i + 1).append(": Option C\n");

} else if (optionsD[i].isSelected()) {

result.append("Question ").append(i + 1).append(": Option D\n");

} else {

result.append("Question ").append(i + 1).append(": None selected\n");

}

}

// Display the selected options

JOptionPane.showMessageDialog(this, result.toString());

}

}

}