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Reg No: j77-1565-2022

Course: Event Driven Programming

Course Code: SIT 327

Number One:

Name: _____

Mobile: _____

Gender: ○ Male   ○ Female

Date of Birth (DD/MM/YYYY): _____

Address: _____

☐ I accept the terms and conditions

[Submit]   [Reset]

The source code for number one:

```java
import javax.swing.*;

import java.awt.*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

*/
```

```java
package com.mycompany.registrationform2;


import java.awt.FlowLayout;

import java.awt.Font;

import java.awt.GridBagConstraints;

import java.awt.GridBagLayout;

import java.awt.Insets;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.ButtonGroup;

import javax.swing.JButton;

import javax.swing.JCheckBox;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JPanel;

import javax.swing.JRadioButton;

import javax.swing.JScrollPane;

import javax.swing.JTextArea;

import javax.swing.JTextField;


/**
 *
```

```java
* @author muhia
*/
public class RegistrationForm2 {
    public static void main(String[] args) {
        // Create a new JFrame
        JFrame frame = new JFrame("Registration Form 2");
        frame.setSize(500, 400);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);


        // Set layout manager to GridBagLayout
        frame.setLayout(new GridBagLayout());
        GridBagConstraints gbc = new GridBagConstraints();
        gbc.insets = new Insets(5, 5, 5, 5); // Add some space between components


        // Create and style heading label
        JLabel headingLabel = new JLabel("REGISTRATION FORM");
        headingLabel.setFont(new Font("Arial", Font.BOLD, 20));


        // Create form elements
        JLabel nameLabel = new JLabel("Name:");
        JTextField nameField = new JTextField(20); // Set column size for width control


        JLabel mobileLabel = new JLabel("Mobile:");
```

```java
JTextField mobileField = new JTextField(20); // Set column size for width control


// Gender Radio Buttons

JLabel genderLabel = new JLabel("Gender:");

JRadioButton maleButton = new JRadioButton("Male");

JRadioButton femaleButton = new JRadioButton("Female");

ButtonGroup genderGroup = new ButtonGroup();

genderGroup.add(maleButton);

genderGroup.add(femaleButton);

JPanel genderPanel = new JPanel(new FlowLayout());

genderPanel.add(maleButton);

genderPanel.add(femaleButton);


// DOB Text Field

JLabel dobLabel = new JLabel("Date of Birth (DD/MM/YYYY):");

JTextField dobField = new JTextField(20); // Set column size for width control


// Address Text Field

JLabel addressLabel = new JLabel("Address:");

JTextField addressField = new JTextField(20); // Set column size for width control


// Checkbox for Terms and Conditions

JCheckBox termsCheckbox = new JCheckBox("I accept the terms and conditions");
```

```java
// Submit Button and Reset Button

JButton submitButton = new JButton("Submit");

JButton resetButton = new JButton("Reset");


// Text Area for Displaying User Information

JLabel displayLabel = new JLabel("User Information:");

JTextArea displayArea = new JTextArea(5, 30); // Multi-line text area

displayArea.setEditable(false); // Make it read-only

JScrollPane scrollPane = new JScrollPane(displayArea); // Add scroll pane


// Add components to the frame with GridBagLayout constraints

gbc.gridx = 0; gbc.gridy = 0; gbc.gridwidth = 2;

frame.add(headingLabel, gbc);


// Name Field

gbc.gridx = 0; gbc.gridy = 1; gbc.gridwidth = 1;

frame.add(nameLabel, gbc);

gbc.gridx = 1; gbc.gridy = 1;

frame.add(nameField, gbc);


// Mobile Field

gbc.gridx = 0; gbc.gridy = 2;
```

```java
frame.add(mobileLabel, gbc);

gbc.gridx = 1; gbc.gridy = 2;

frame.add(mobileField, gbc);


// Gender Radio Buttons

gbc.gridx = 0; gbc.gridy = 3;

frame.add(genderLabel, gbc);

gbc.gridx = 1; gbc.gridy = 3;

frame.add(genderPanel, gbc);


// DOB Field

gbc.gridx = 0; gbc.gridy = 4;

frame.add(dobLabel, gbc);

gbc.gridx = 1; gbc.gridy = 4;

frame.add(dobField, gbc);


// Address Field

gbc.gridx = 0; gbc.gridy = 5;

frame.add(addressLabel, gbc);

gbc.gridx = 1; gbc.gridy = 5;

frame.add(addressField, gbc);


// Terms Checkbox
```

```java
gbc.gridx = 0; gbc.gridy = 6; gbc.gridwidth = 2;

frame.add(termsCheckbox, gbc);


// Submit Button

gbc.gridx = 0; gbc.gridy = 7;

frame.add(submitButton, gbc);


// Reset Button

gbc.gridx = 1; gbc.gridy = 7;

frame.add(resetButton, gbc);


// Display Label

gbc.gridx = 0; gbc.gridy = 8; gbc.gridwidth = 2;

frame.add(displayLabel, gbc);


// Display Area

gbc.gridx = 0; gbc.gridy = 9; gbc.gridwidth = 2;

frame.add(scrollPane, gbc);


// Add ActionListener to the Submit button

submitButton.addActionListener((ActionEvent e) -> {

    String name = nameField.getText();

    String mobile = mobileField.getText();
```

```java
        String gender = maleButton.isSelected() ? "Male" : (femaleButton.isSelected() ?
"Female" : "Not selected");

        String dob = dobField.getText();

        String address = addressField.getText();

        boolean acceptedTerms = termsCheckbox.isSelected();



        // Validation and Display input

        if (!name.isEmpty() && !mobile.isEmpty() && !gender.equals("Not selected")
&& !dob.isEmpty() && !address.isEmpty() && acceptedTerms) {

            String userInfo = "Name: " + name + "\n"

                + "Mobile: " + mobile + "\n"

                + "Gender: " + gender + "\n"

                + "DOB: " + dob + "\n"

                + "Address: " + address;

            displayArea.setText(userInfo); // Update the display area with user info

        } else {

            displayArea.setText("Please fill all fields and accept terms!");

        }

    });



    // Add ActionListener to the Reset button

    resetButton.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {
```

```java
            // Reset all fields

            nameField.setText("");

            mobileField.setText("");

            genderGroup.clearSelection();

            dobField.setText("");

            addressField.setText("");

            termsCheckbox.setSelected(false);

            displayArea.setText(""); // Clear display area

        }

    });


    // Set the frame visibility

    frame.setVisible(true);

  }

}
```