

**CTEC 22043 - Object Oriented Programming (2022/2023)**

**Group H.**

* CT/2021/014 WIJESINGHA W.A.K.H.
* CT/2021/026 NADEESHANI S.Y.A.
* CT/2021/027 ERANDA K.K.D.J.
* CT/2021/045 RANAWEERA H.G.G.I.
* CT/2021/047 SRI RAJITHA .S
* CT/2021/060 ATHTHANAGODA M.M.
* CT/2021/088    TISHANY T.
* Link For GitHub Repository: <https://github.com/Kushan12hasaraga/OOP-Group-H.git>
* Link For Demo Video: <https://drive.google.com/file/d/1rmRQgyIhGuq2akfce71AWUVUg_q4mrxm/view?usp=drive_link>

**Code:**

|  |
| --- |
| import javax.swing.\*; import java.awt.\*;  public class RegistrationForm extends JFrame {   JTextField nameField, mobileField;  JRadioButton maleButton, femaleButton;  JComboBox<String> dateBox, monthBox, yearBox;  JTextArea addressArea, outputArea;  JCheckBox termsBox;  JButton submitButton, resetButton;  JLabel messageLabel;   public RegistrationForm() {  setTitle("Registration Form");  setSize(850, 500);   setDefaultCloseOperation(*EXIT\_ON\_CLOSE*);  setLayout(null);   //Set Title as "Registration Form"  JLabel formTitle = new JLabel("Registration Form");  formTitle.setFont(new Font("Arial", Font.*BOLD*, 24));  formTitle.setBounds(300, 0, 300, 40);  add(formTitle);   // Labels for elements  JLabel nameLabel = new JLabel("Name");  JLabel mobileLabel = new JLabel("Mobile");  JLabel genderLabel = new JLabel("Gender");  JLabel dobLabel = new JLabel("DOB");  JLabel addressLabel = new JLabel("Address");   nameLabel.setBounds(30, 50, 100, 30);  mobileLabel.setBounds(30, 90, 100, 30);  genderLabel.setBounds(30, 130, 100, 30);  dobLabel.setBounds(30, 170, 100, 30);  addressLabel.setBounds(30, 210, 100, 30);   // Set Fields  nameField = new JTextField();  nameField.setBounds(130, 50, 200, 30);   mobileField = new JTextField();  mobileField.setBounds(130, 90, 200, 30);   maleButton = new JRadioButton("Male");  femaleButton = new JRadioButton("Female");  maleButton.setBounds(130, 130, 70, 30);  femaleButton.setBounds(200, 130, 100, 30);   ButtonGroup genderGroup = new ButtonGroup();  genderGroup.add(maleButton);  genderGroup.add(femaleButton);   String[] days = new String[31];  for (int i = 1; i <= 31; i++) days[i - 1] = String.*valueOf*(i);  dateBox = new JComboBox<>(days);  dateBox.setBounds(130, 170, 60, 30);   String[] months = {"Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"};  monthBox = new JComboBox<>(months);  monthBox.setBounds(200, 170, 80, 30);   String[] years = new String[50];  for (int i = 1975; i <= 2024; i++) years[i - 1975] = String.*valueOf*(i);  yearBox = new JComboBox<>(years);  yearBox.setBounds(290, 170, 80, 30);   addressArea = new JTextArea();  addressArea.setBounds(130, 210, 240, 60);   termsBox = new JCheckBox("Accept Terms And Conditions.");  termsBox.setBounds(130, 280, 250, 30);   submitButton = new JButton("Submit");  resetButton = new JButton("Reset");   submitButton.setBounds(130, 320, 100, 30);  resetButton.setBounds(250, 320, 100, 30);   // Error message Label  messageLabel = new JLabel("");  messageLabel.setBounds(130, 360, 400, 30);  messageLabel.setForeground(Color.*BLACK*);  messageLabel.setFont(new Font("Arial", Font.*BOLD*, 14));   // Output Text area  outputArea = new JTextArea();  outputArea.setEditable(false);  outputArea.setBackground(Color.*WHITE*);  JScrollPane scrollPane = new JScrollPane(outputArea);  scrollPane.setBounds(420, 50, 380, 340);  scrollPane.setBorder(BorderFactory.*createLineBorder*(Color.*GRAY*));   // Components  add(nameLabel);  add(mobileLabel);  add(genderLabel);  add(dobLabel);  add(addressLabel);  add(nameField);  add(mobileField);  add(maleButton);  add(femaleButton);  add(dateBox);  add(monthBox);  add(yearBox);  add(addressArea);  add(termsBox);  add(submitButton);  add(resetButton);  add(messageLabel);  add(scrollPane);   // Button actions  submitButton.addActionListener(e -> {  if (!termsBox.isSelected()) {  messageLabel.setText("Please accept the terms and conditions.");  } else {  messageLabel.setText(""); // Clear error   //Data To output area  String name = nameField.getText();  String mobile = mobileField.getText();  String gender = maleButton.isSelected() ? "Male" : femaleButton.isSelected() ? "Female" : "Not specified";  String dob = dateBox.getSelectedItem() + " " + monthBox.getSelectedItem() + " " + yearBox.getSelectedItem();  String address = addressArea.getText();   //Output on Right text area  String output = "----- Registered Information -----\n"  + "Name: " + name + "\n"  + "Mobile: " + mobile + "\n"  + "Gender: " + gender + "\n"  + "DOB: " + dob + "\n"  + "Address: " + address + "\n";   outputArea.setText(output);  }  });   //Reset button  resetButton.addActionListener(e -> {  nameField.setText("");  mobileField.setText("");  genderGroup.clearSelection();  dateBox.setSelectedIndex(0);  monthBox.setSelectedIndex(0);  yearBox.setSelectedIndex(0);  addressArea.setText("");  termsBox.setSelected(false);  outputArea.setText("");  messageLabel.setText("");  });  }   public static void main(String[] args) {  SwingUtilities.*invokeLater*(() -> new RegistrationForm().setVisible(true));  } } |

**Output:** 