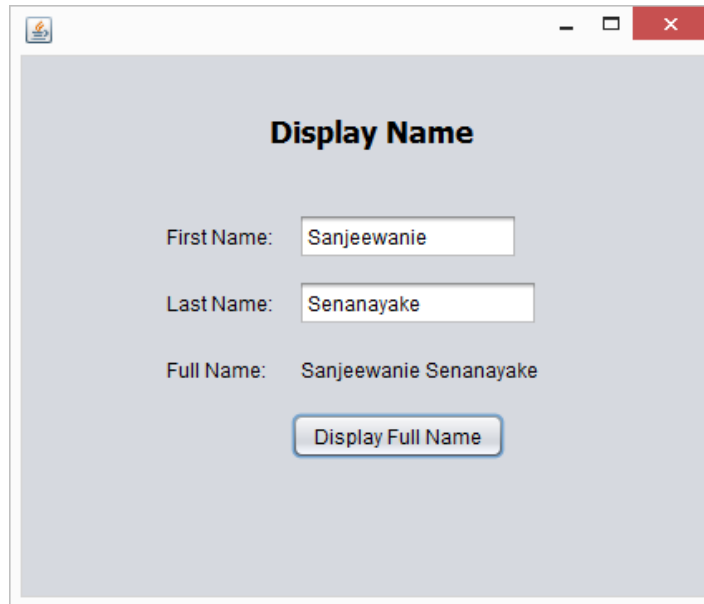


CST 243-3 Rapid Application Development (Practical)

Exercise 1

1. Implement a Java GUI application to get first name and last name from the user and to display the full name in a label after user clicks on the 'Display Full Name' button. (Hint: Use the following screen to design the window.)



The screenshot shows a Java Swing window titled "Display Name". Inside the window, there are three text input fields. The first is labeled "First Name:" and contains the text "Sanjeewanie". The second is labeled "Last Name:" and contains the text "Senanayake". Below these, there is a label "Full Name:" followed by the text "Sanjeewanie Senanayake". At the bottom of the form is a button labeled "Display Full Name".

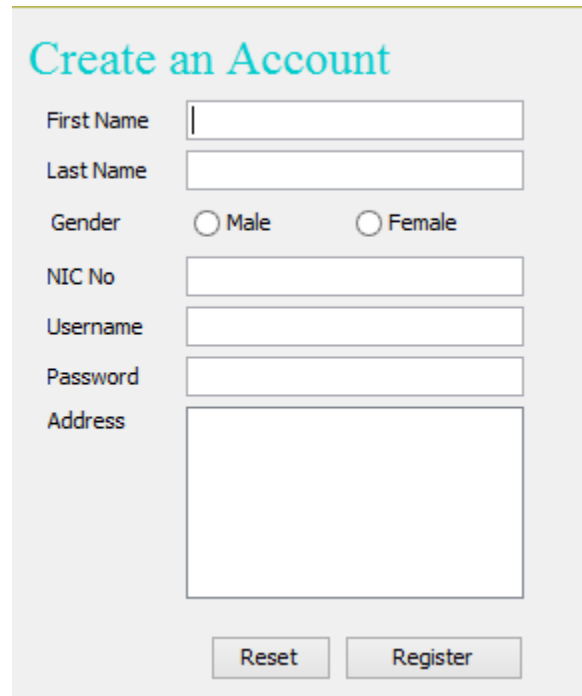
2. Implement a Java GUI application to get two inputs (number 1 and number 2) and to display the total in a message box after user click on 'Add' button.
3. Design following interface using Java Swing controls.



The screenshot shows a Java Swing window for a login interface. On the left is a circular logo with a gear and two figures. To the right of the logo is the text "Co-operative Rural Bank" in a blue serif font. Below the title, there are two text input fields: "Username" and "Password". At the bottom, there is a link "Not Registered? Register now" and a button labeled "Login".

(Hint: In this interface, username should be a text field and password should be a password field.

When user click on “Register now” link, then following window should open to create a new account)



The image shows a web form titled "Create an Account" in a teal font. The form is set against a light gray background. It contains the following fields and controls:

- First Name:** A single-line text input field.
- Last Name:** A single-line text input field.
- Gender:** Two radio button options labeled "Male" and "Female".
- NIC No:** A single-line text input field.
- Username:** A single-line text input field.
- Password:** A single-line text input field.
- Address:** A larger, multi-line text area.
- Buttons:** At the bottom, there are two buttons: "Reset" and "Register".

In this interface, when user click on the “Reset” button, all the fields should be reset to the default values.

4. Design a temperature converter to convert Celsius temperature value to Fahrenheit temperature value and to convert Fahrenheit temperature value to Celsius temperature value.

Hint: Use the following formulas for conversions.

$$T(^{\circ}\text{F}) = T(^{\circ}\text{C}) \times 9/5 + 32$$

$$T(^{\circ}\text{C}) = (T(^{\circ}\text{F}) - 32) \times 5/9$$