

## Instructions

1. Perform the steps provided in the activity section.
2. Inform the laboratory personnel once you have completed.

## Objectives

At the end of the activity, the student will be able to:

1. Design a form using Swing controls and a JFrame.
2. Apply basic functionality to check the values of the controls based on user input.

## Activity

1. Create a new Java application project.
2. Add a JFrame and design a registration form like the image

The form consists of the following fields:

- Full Name \***: Two adjacent text input fields labeled "First Name" and "Last Name".
- University \***: A dropdown menu currently showing "Please Select".
- If Other - Please Specify**: A text input field.
- If Other - Please Specify**: Another text input field.
- Academic year of PhD \***: A dropdown menu currently showing "Please Select".
- Submit**: A large, light-colored rectangular button at the bottom.

3. Apply the following settings:
  - University dropdown values are UST, FEU, AMA, STI, UE, Others
  - Academic year of PhD should contain “2000, 2001, up to 2025”
4. The following will be performed when the user clicks on the “Submit” button:
  - Firstname and lastname are required. If one is empty, display the error message “Name is required” using JOptionPane.
  - University is required. If no selected university, display the error message “University is required” using JOptionPane.
  - Academic year is required. If no academic year is selected, display the error message “Academic year is required” using the JOptionPane.
  - If all required has been satisfied, display all the input and selection like the one below using JOptionPane or console display.

**ACLC College of Manila**  
**Computer Programming 2**

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**Name:** Dela Cruz, Juan

**University:** Others

**Others:** UP Diliman

**Academic year:** 2022

## Assignment

Format: Short bond paper, hand written

Due date: August 18, 2025

Answer the following:

1. What is Java JDBC?
2. What is Java ResultSet? Provide examples of code using ResultSet.
3. What are the three types of ResultSet?