

Laboratory Exercise

Windows Application

Objectives:

At the end of the exercise, the students should be able to:

- Write programs that execute statements repeatedly; and
- Create nested loops in a program.

Materials:

- One (1) personal computer with pre-installed Windows Operating System
- Visual Studio IDE 2015 or higher

Instructions:

1. Create a Windows application that will ask the user to enter a student's information, then display all of them in a message box when the button is clicked. The application should include the following controls and their properties:

Control	Properties
Three (3) Textboxes	Font Size -> 12
Two (2) Radio buttons	
Three (3) Combo boxes	
One (1) Button	Back Color -> Crimson Flat Style -> Flat Font Size -> 12 Fore Color -> White
Six (6) Labels	Font Size -> 12 Font Bold -> True

2. The program should meet the following specifications:
 - Use CamelCase in naming controls.
 - Use looping statement to add items on the three (3) combo boxes:
 - Day is from 1 to 31;
 - Month is from 1 to 12; and
 - Year is from 1900 to current year.
 - Use a decision statement to determine what combo box value is selected by the user.
3. Name the project as `StudentRegistrationApplication` and the class or form as `frmStudentRegistration`.
4. *Figure 1* and *Figure 2* show the example output.

Student Registration

Student Registration Form

Last name *

First name *

Middle name *

Gender * ☐ Male ☐ Female

Date of birth *

-Day- -Month- -Year-

Register student

Figure 1. Example output

Student Registration

Student Registration Form

Last name *

Paul

First name *

Jack

Middle name *

Cruz

Gender * ☒ Male ☐ Female

Date of birth *

27 8 1993

Register student

Student name: Jack Cruz Paul
Gender: Male
Date of birth: 27/8/1993

OK

Figure 2. Example input and message box output

GRADING RUBRIC:

CRITERIA	PERFORMANCE INDICATORS	POINTS
Correctness	The code produces the expected result.	30
Logic	The code meets the specifications of the problem.	30
Efficiency	The code is concise without sacrificing correctness and logic.	20
Syntax	The code adheres to the rules of the programming language.	20
Total		100