Laboratory Activity No. 10	
The Selection Widgets using Pycharm	
Course Code: CPE103	Program: BSCPE
Course Title: Object-Oriented Programming	Date Performed: 03/22/2025
Section: 1-A	Date Submitted: 03/22/2025
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4 Object (- (-)	

1. Objective(s):

This activity aims to familiarize students with the Pycharm framework and selection widget

2. Intended Learning Outcomes (ILOs):

The students should be able to:

- 2.1 To create a Python program that use selection widget like Combobox
- 2.2 To use ttk function as part of Tk () in the Tkinter module

3. Discussion:

A Graphical User Interface (GUI) application is a program that the user can interact with through graphics (windows, buttons, text fields, checkboxes, images, icons, etc..) such as the Desktop GUI of Windows OS by using a mouse and keyboard unlike with a Command-line program or Terminal program that support keyboard inputs only.

Pycharm is an integrated development environment used for programming in Python. It provides code analysis, a graphical debugger, an integrated unit tester, integration with version control systems, and supports web development with Django.

4. Materials and Equipment:

Desktop Computer with Anaconda Python or Pycharm Windows Operating System

5. Procedure:

1.

2. Run the program and observe the output.

Adding an icon

- 3. Download any .ico picture from https://icon-icons.com/ or any similar sites.
- 4. Place the icon in your folder (ex. Oopfa1<lastname>_lab10)

5. Run the program again, the program should now have an icon similar to the program below. X Choose your birth month Select the month of your birth:

6. Supplementary Activity:
1. Create label widgets below to label your birth date <dd>, birth year <yyyy> 2. Create combobox to drop down your birth date <dd>, birth year <yyyy> 3. Create another method to show info about your birth date <dd>, birth year <yyyy></yyyy></dd></yyyy></dd></yyyy></dd>
Note: You may also use additional selection(listbox, radio button, check button) or common widgets to improve the design of your GUI.
Questions 1. What are selection widgets? Selection widgets allows user to choose one or multiple options from a predefined set. It also includes combobox to provide dropdown menu
 Which Python libraries provide selection widgets? Tkinter offers Combobox, Listbox, Radiobutton, and Checkbutton, and PyQt offers QCombobox, QListWidget, QRadioButton, and QCheckBox
How do selection widgets enhance user interaction in GUI applications?
It enhance user interactions through structured way for users to input choices without manually typing.
7. Conclusion:

Selection widgets are very essential in GUI applications, it allow user to choose from predefined options. Python libraries like Tkinter and PyQt can be used in selection widgets such as Combobox, Listbox, Radiobutton, and Checkbutton. These widgets provide selection improving interaction between the user and program.

8. Assessment Rubric: