Laboratory Activity No. 10	
The Selection Widgets using Pycharm	
Course Code: CPE103	Program: BSCPE
Course Title: Object-Oriented Programming	Date Performed: 03/22/25
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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. × Choose your birth month Select the month of your birth:

6. Supplementary Activity:

Task

- 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>

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?
 - <u>Selection widgets are tools in a program that let users choose from different options, like</u> buttons, dropdown menus, and checkboxes.
- 2. Which Python libraries provide selection widgets?
 - Python libraries that provide selection widgets include Tkinter, PyQt, and Kivy
- 3. How do selection widgets enhance user interaction in GUI applications?
 - Selection widgets make GUI applications easier to use by allowing users to quickly pick options instead of typing them.

7. Conclusion:

This laboratory taught me to develop a GUI using Python. I found this to be exciting since I got to decide the look, widgets, and placement for my window. Coding using the PyCharm program became easy and time efficient. Being aware of creating and designing a window, I can apply that knowledge to further projects, even our final project. This laboratory was informative, and it bettered my coding abilities.

8. Assessment Rubric: