Laboratory Activity No. 10					
The Selection Widgets using Pycharm					
Course Code: CPE103	Program: BSCPE				
Course Title: Object-Oriented Programming	Date Performed: 3/22/2025				
Section: BSCPE 1-A	Date Submitted: 3/22/2025				
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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:

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.

PLEASE REFER TO THIS LINK: <u>CPE-103-OOP-1-A/LAB ACT 10/SUPPLEMENTARY 10.py at main · Lewis-Clark-Palmes/CPE-103-OOP-1-A</u>

Questions

1	What are	selection	widgets?
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Selection widgets are tools in a GUI that let users choose from options, like dropdown	S,
checkboxes, or radio buttons. They make interacting with applications easier and more	Э
intuitive.	

2. Which Python libraries provide selection widgets?

Libraries like Tkinter,	, PyQt, and Kivy	provide selection	n widgets. Each	n has unique f	eatures for
building user-friendly	interfaces.		_	-	

3. How do selection widgets enhance user interaction in GUI applications?

They simplify input by offering predefined choices, reducing errors, and making apps more efficient and visually appealing.

7. Conclusion:

Selection widgets play a vital role in GUI applications, as they simplify data entry, enhance usability, and improve the overall user experience. By integrating libraries such as Tkinter and PyQt, developers can create efficient and interactive interfaces tailored to specific needs. This lab activity highlights the importance of understanding and leveraging selection widgets to build robust and user-friendly applications. Pycharm further aids in this process by offering an integrated environment to develop, debug, and test GUI programs effectively.

8. Assessment Rubric: