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.	Sup	plementary	/ Activity:
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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/SupplementaryActivityNo.10.py at main</u> sebastianacebedo/CPE-103-OOP-1-A

Questions

1. What are selection widgets?

Selection Widget are GUI that let users choose from a set of optios like dropdown menu

2. Which Python libraries provide selection widgets?

From what I've used from supplementary activity, Tkinter provide libraries for selection widgets.

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

Selection widgets make the user more interactive and easily pick options so that it avoids the wrong input of data of user

7. Conclusion:

In conclusion, selection widgets are important for creating interactive and user friendly GUI application. They simplify user input, improving efficiency and enhance the overall experience of user by providing clear to input options.

8. Assessment Rubric: