Laboratory Activity No. 10	
The Selection Widgets using Pycharm	
Course Code: CPE103	Program: BSCPE
Course Title: Object-Oriented Programming	Date Performed: March 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. X 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?

Selection widgets are GUI components that allow users to choose from a list of options without manual Text Input. It includes dropdown menus, radio buttons, checkboxes, and list boxes.

2. Which Python libraries provide selection widgets?

Several Python libraries offer selection widfers for GUI development, such as Tkinter that provides

Selection widgets like OptionMenu, Listbox, Checkbutton, and Radiobutton. And, PyQt/PySide

Includes widgets such as QComboBox, QListWidget, QRadioButton, and QCheckBox

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

Selections widgets enhance user interaction by making interfaces more intuitive and efficient they help users quickly select options without manual input, reducing errors and improving data consistency It makes the navigation smoother for users.

7. Conclusion:

In this acticity, we learned how to use selection widgets like ComboBox, ListBox, and Checkbuttons in a Python program Using Tkinter. These widgets help make the programs easier to use by letting users choose options instead of typing everything. We also learned how to add icons to our program, making it look better. Overall, this activity helped use to understand how to create better and more user-friendly programs.

8. Assessment Rubric: