Homework Assignment: Tkinter Basics
Definitions: Fill in the definitions for the following terms related to the Tkinter library.
1. Listbox:
Definition:
2. StringVar:
Definition:
3. messagebox:
Definition:
4. Pack Geometry Manager:
Definition:

Coding Problem:

Create a Tkinter application that allows the user to input text into an entry widget and update a label with the entered text when a button is clicked.

Requirements:

- 1. The application should have an entry widget for the user to input text.
- 2. A button that, when clicked, updates the label with the text from the entry widget.
- 3. The label should initially display the text "Your text will appear here."

Steps to Complete the Coding Problem:

- 1. Set Up the Main Application Window:
 - Create the main application window using `tk.Tk()`.
 - Set the window title and size using `title()` and `geometry()` methods.
- 2. Define the Function to Update the Label:
 - Create a function named 'update label()' that:
 - Retrieves the text from the entry widget using the 'get()' method.
 - Checks if the text is not empty.
 - Updates the label's text using the `config()` method.
 - If the entry is empty, displays a warning message using 'messagebox.showwarning()'.

- 3. Create the Entry Widget:
 - Add an entry widget to the window using `tk.Entry()`.
 - Use the `pack()` method to add padding and display it.

4. Create the Button:

- Add a button to the window using `tk.Button()`.
- Set the button's command to call the 'update label()' function.
- Use the `pack()` method to add padding and display it.

5. Create the Label:

- Add a label to the window using `tk.Label()`.
- Set the initial text of the label to "Your text will appear here".
- Use the 'pack()' method to add padding and display it.

6. Run the Main Event Loop:

- Start the Tkinter main event loop using `root.mainloop()`.

Example Output:

The application window should look something like this: