

Create a To-Do List App

Using Tkinter

First thing to note

Based on Past Errors

This is the order the code works:

`root.mainloop()` ←
bottom of the code

This is always at the

The Order of Today's Project

Your code should be written in this order

- Necessary Imports
- Apps Functions
- Window Set Up
- UI Layout

Necessary imports

- `import tkinter as tk`
- `from tkinter import messagebox`

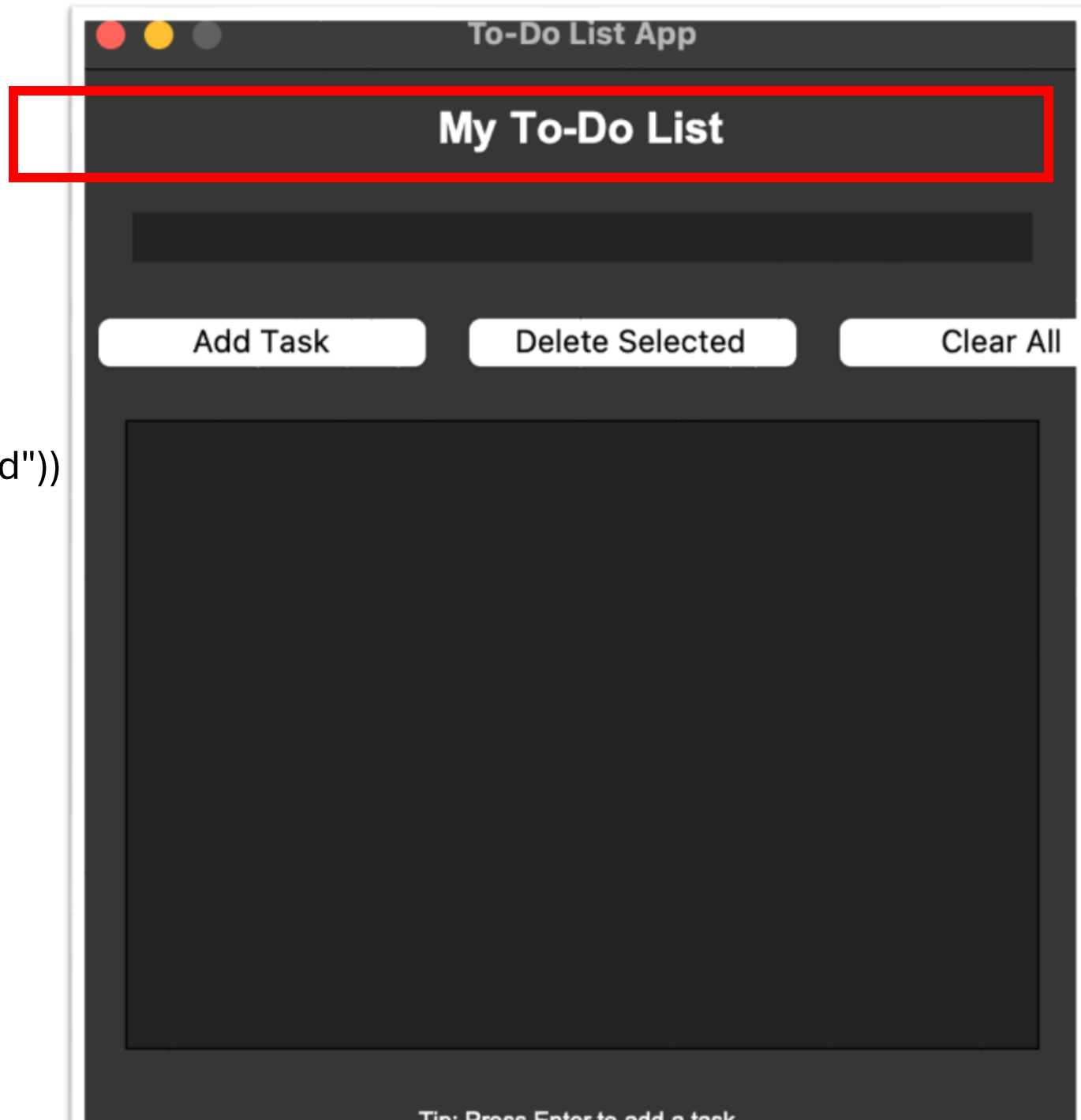
Window Setup

- `root = tk.Tk()`
- `root.title("To-Do List App")`
- `root.geometry("420x450")`
- `root.resizable(False, False)`

UI Layout

- The Title Label

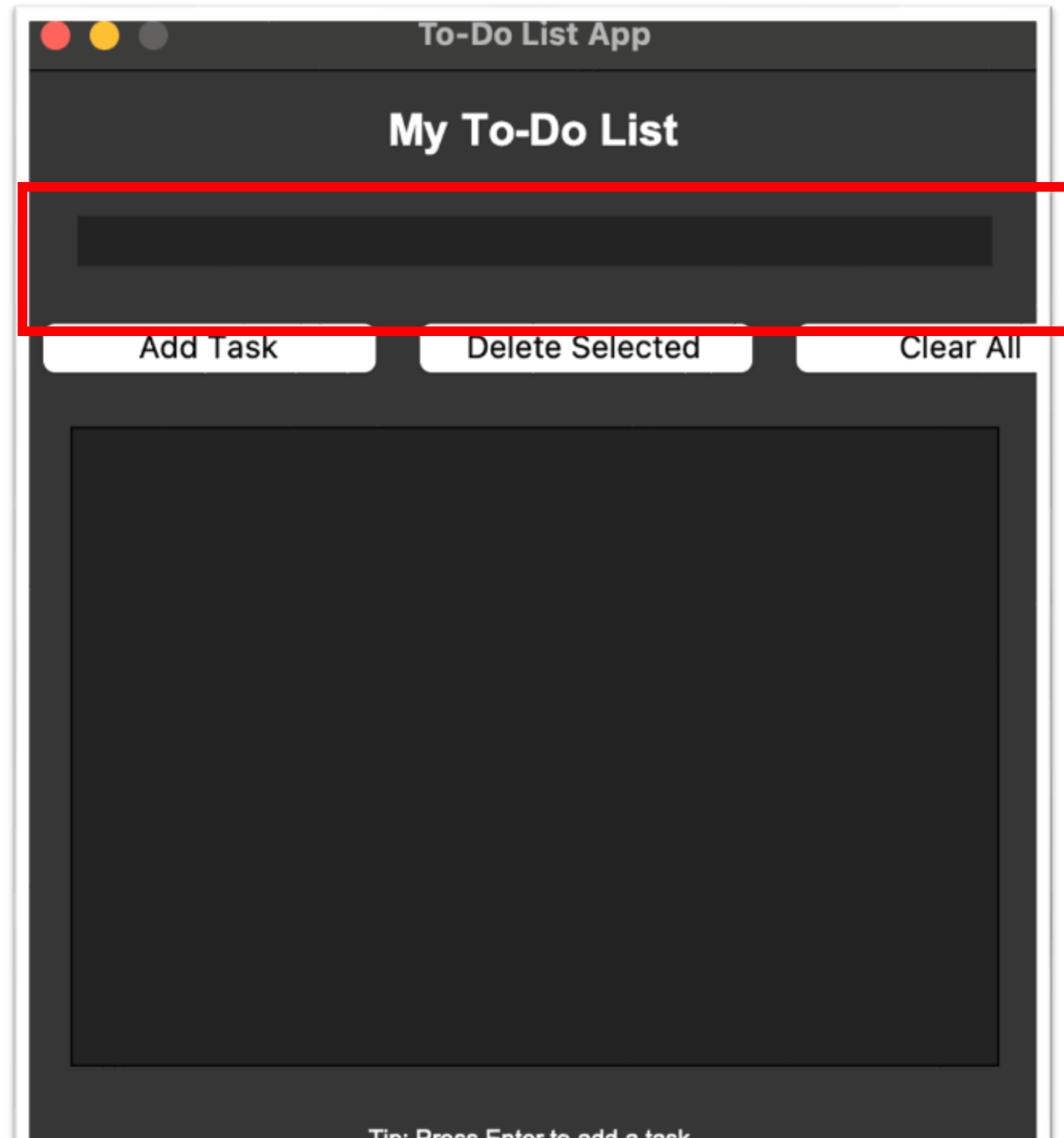
```
title_label = tk.Label(root,  
text="My To-Do List", font=("Arial", 18, "bold"))  
title_label.pack(pady=10)
```



UI Layout

Task Entry

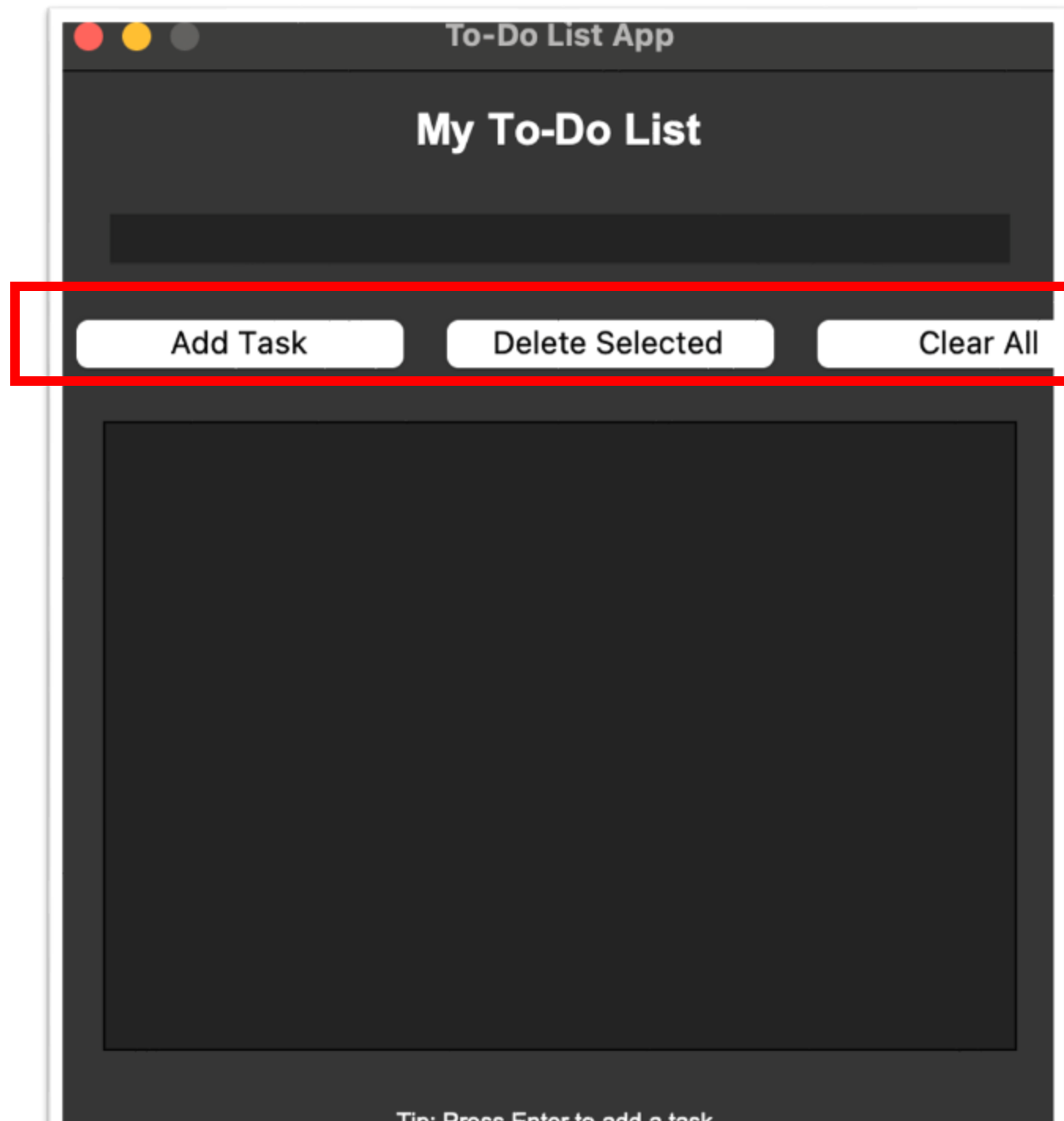
```
task_entry = tk.Entry(root, font=("Arial", 12))
task_entry.pack(padx=20, pady=10, fill="x")
task_entry.bind("<Return>",
    add_task_with_enter)
```



UI Layout

Button Frame

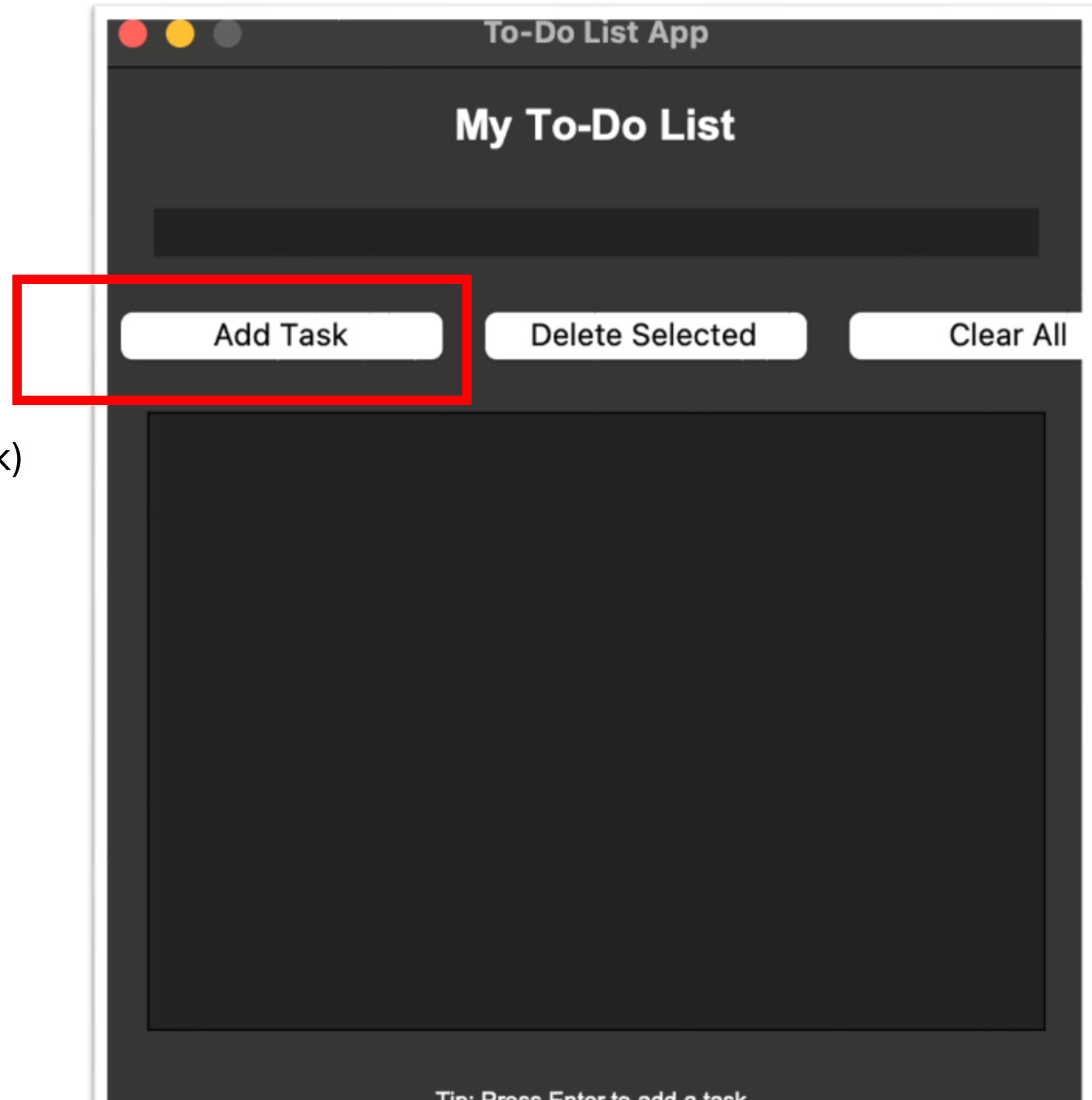
```
button_frame = tk.Frame(root)  
button_frame.pack(pady=5)
```



UI Layout

Add Task

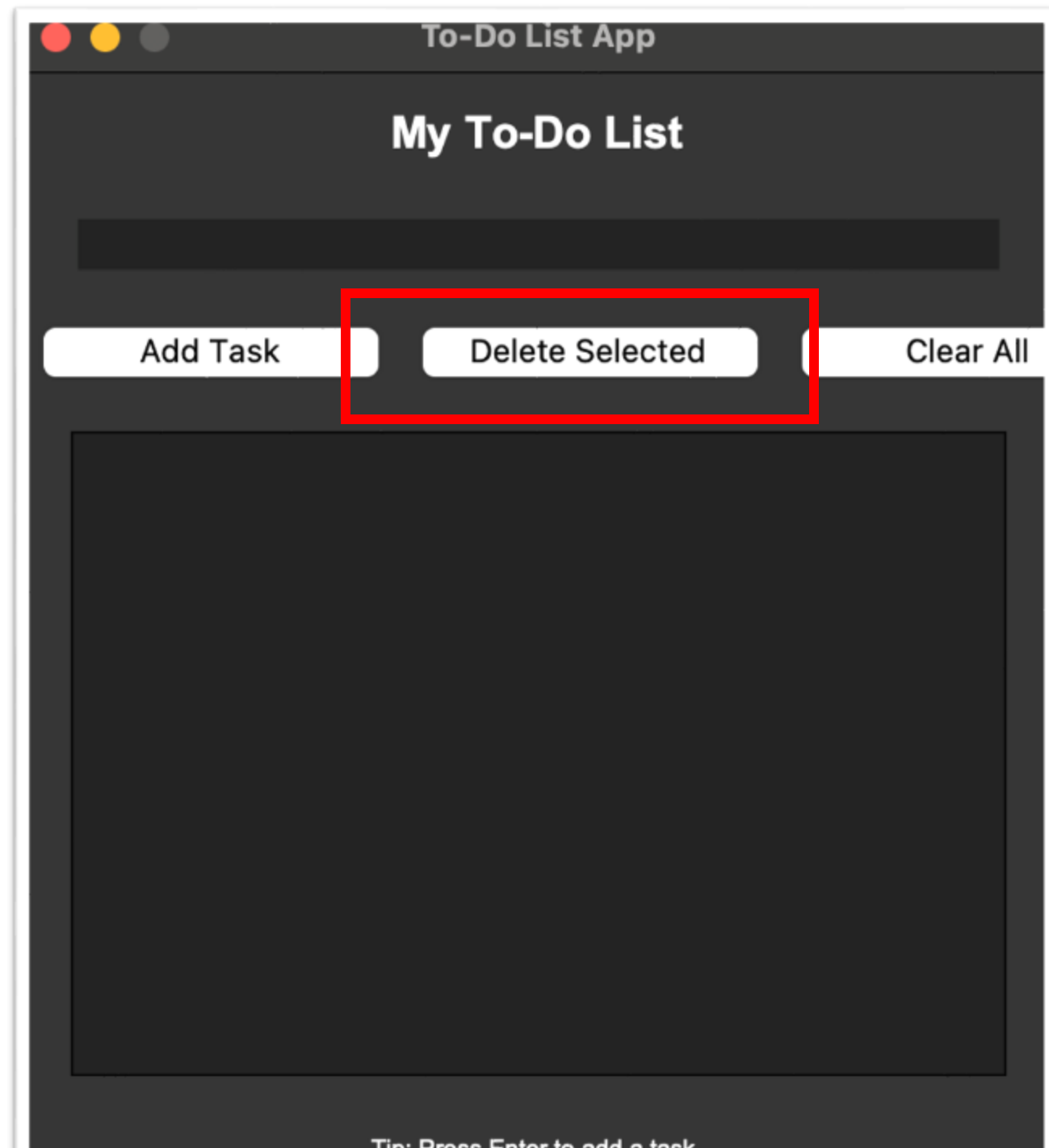
```
add_button = tk.Button(button_frame,  
text="Add Task", width=12, command=add_task)  
add_button.grid(row=0, column=0, padx=5)
```



UI Layout

Delete Selected Task

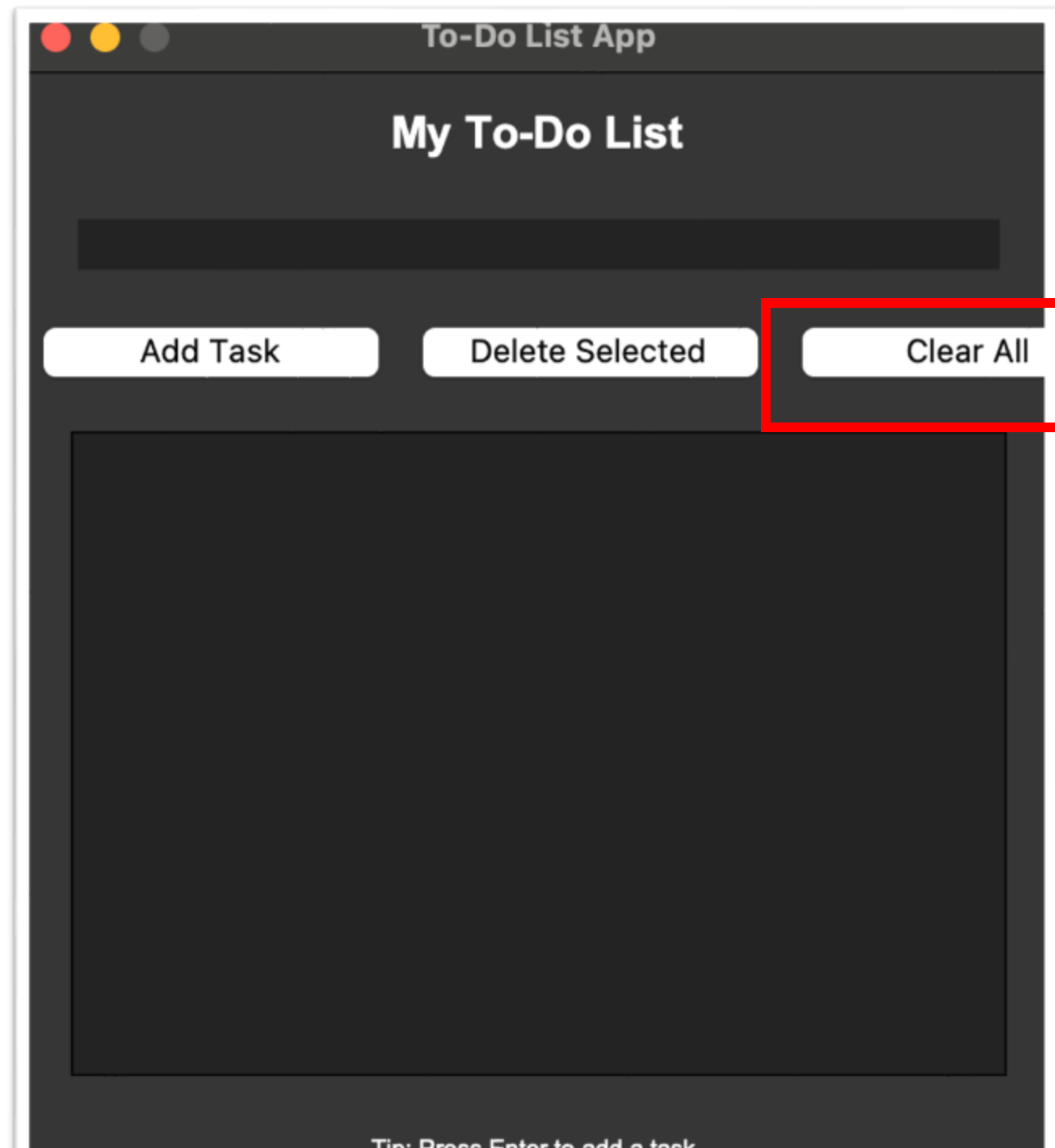
```
delete_button = tk.Button(button_frame,  
    text="Delete Selected", width=12,  
    command=delete_selected)  
  
delete_button.grid(row=0, column=1, padx=5)
```



UI Layout

Clear All

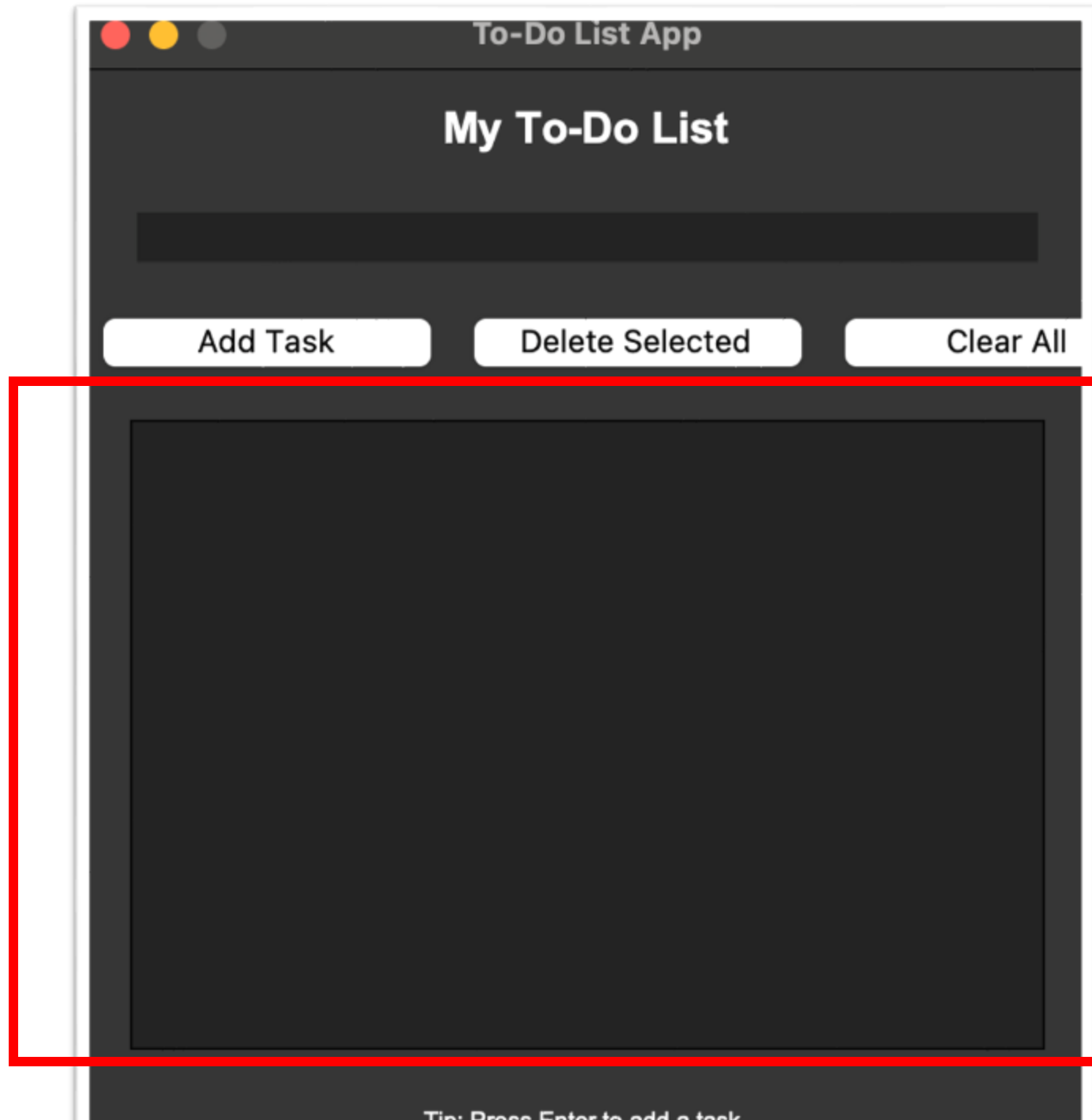
```
clear_button = tk.Button(button_frame,  
    text="Clear All", width=12, command=clear_all)  
clear_button.grid(row=0, column=2, padx=5)
```



UI Layout

List Box

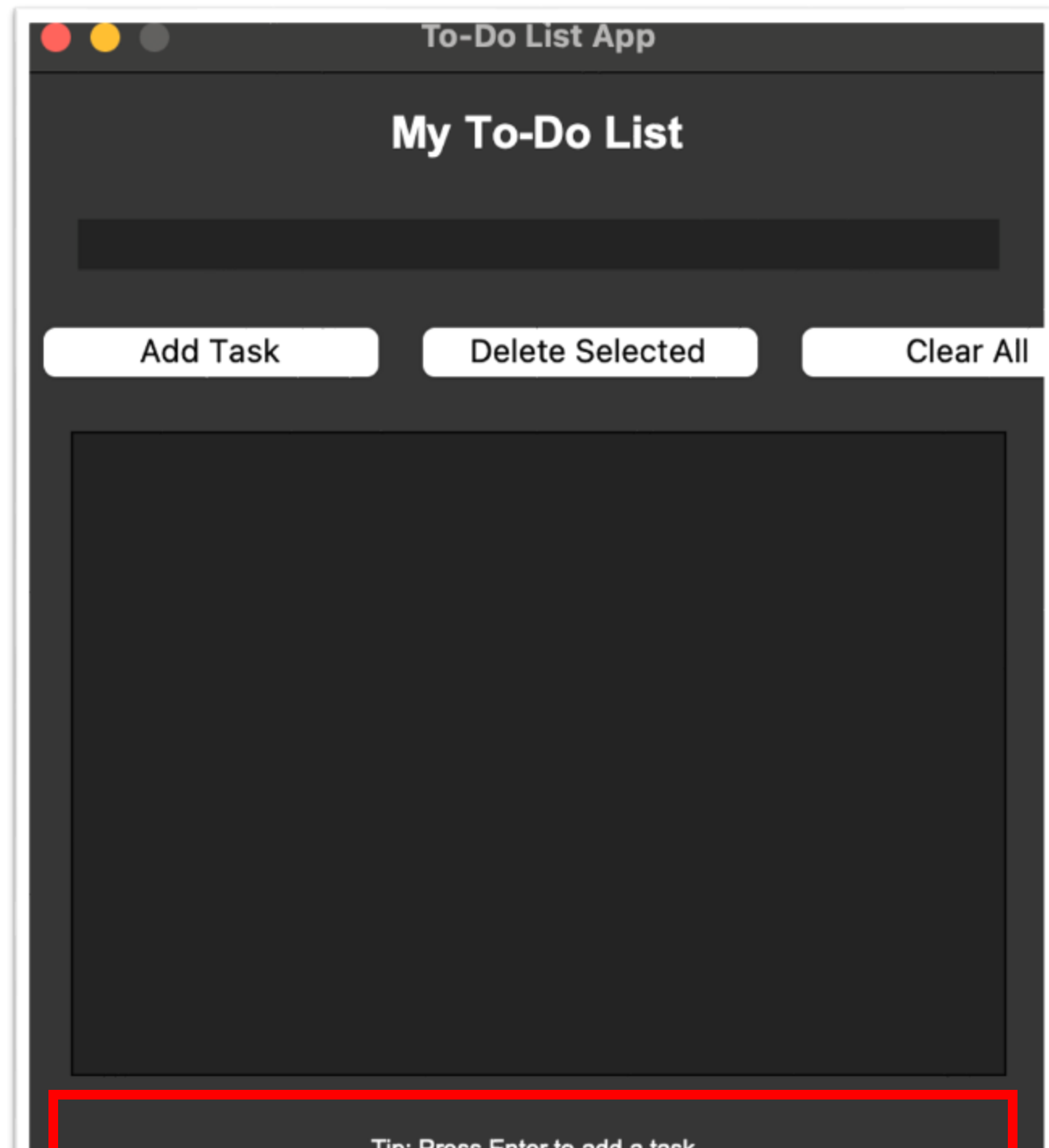
```
task_listbox = tk.Listbox(root, font=("Arial", 12),  
    height=15)  
task_listbox.pack(padx=20, pady=15,  
    fill="both", expand=True)
```



UI Layout

Hint Label

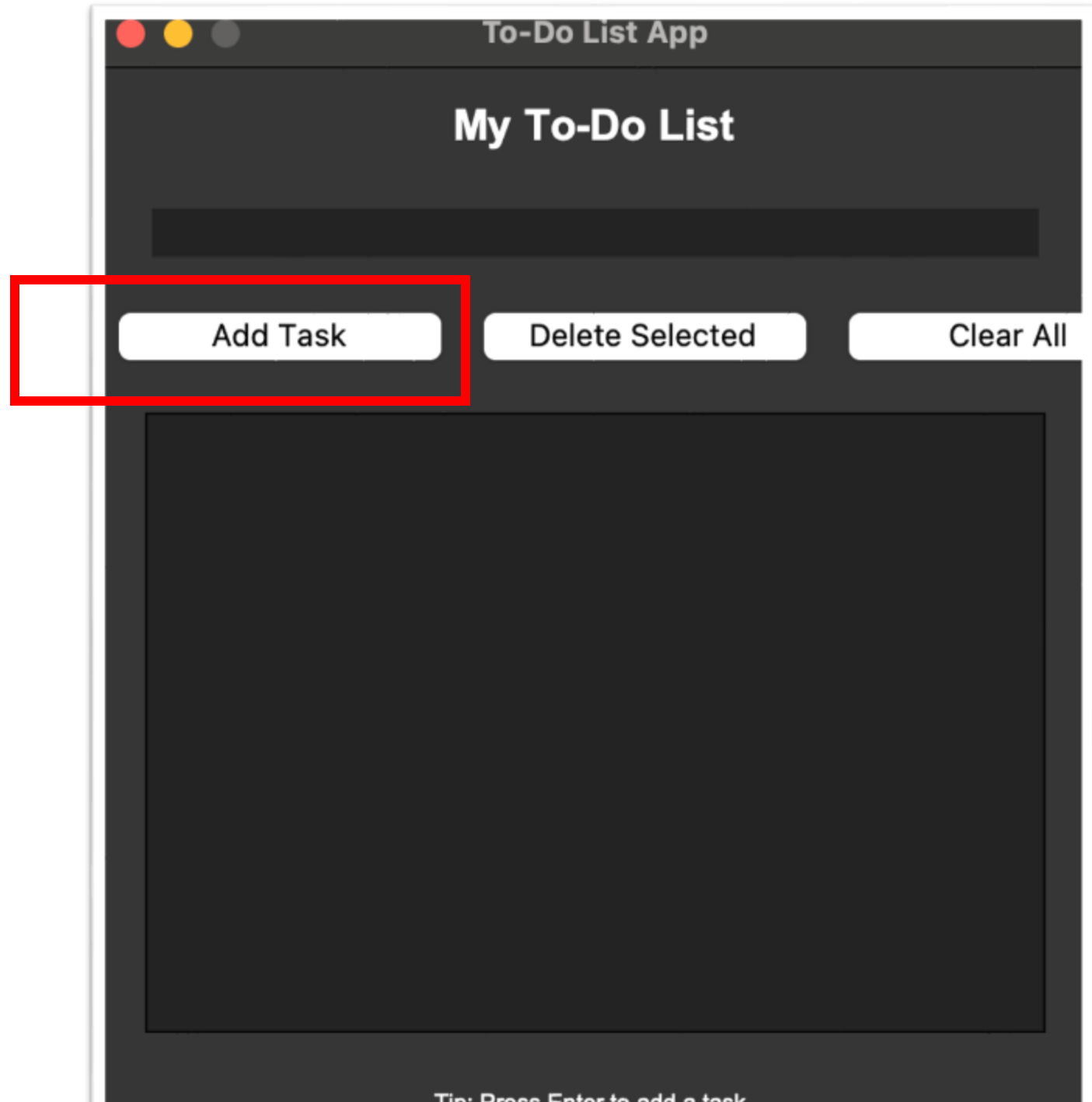
```
hint_label = tk.Label(root,  
text="Tip: Press Enter to add a task.",  
font=("Arial", 10))  
hint_label.pack(pady=5)
```



App Function

Add Task

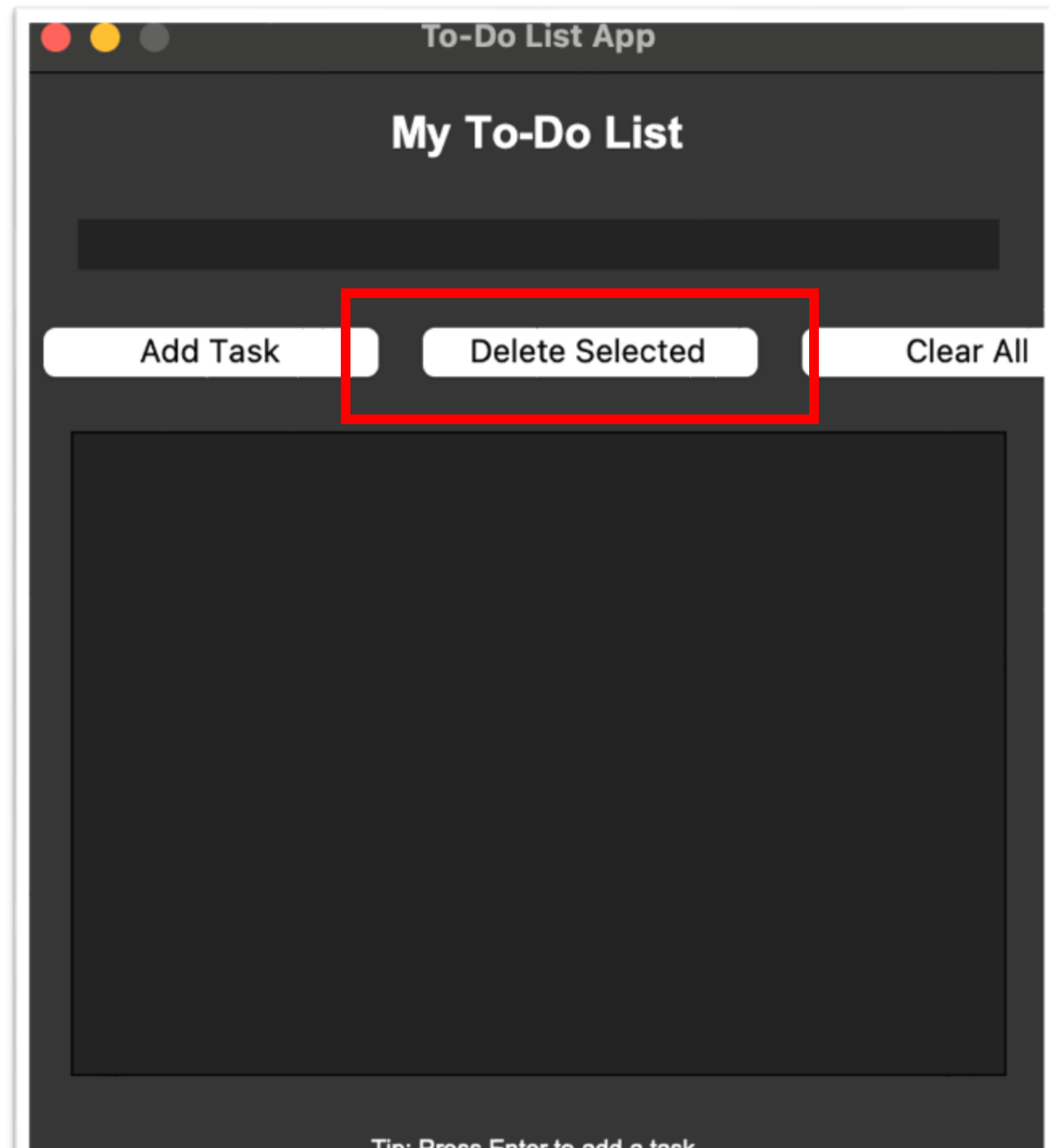
```
def add_task():  
    task = task_entry.get().strip()  
    if not task:  
        messagebox.showwarning("Empty Task",  
                                "Please enter a task.")  
        return  
    task_listbox.insert(tk.END, task)  
    task_entry.delete(0, tk.END)
```



App Function

Delete Selected Task

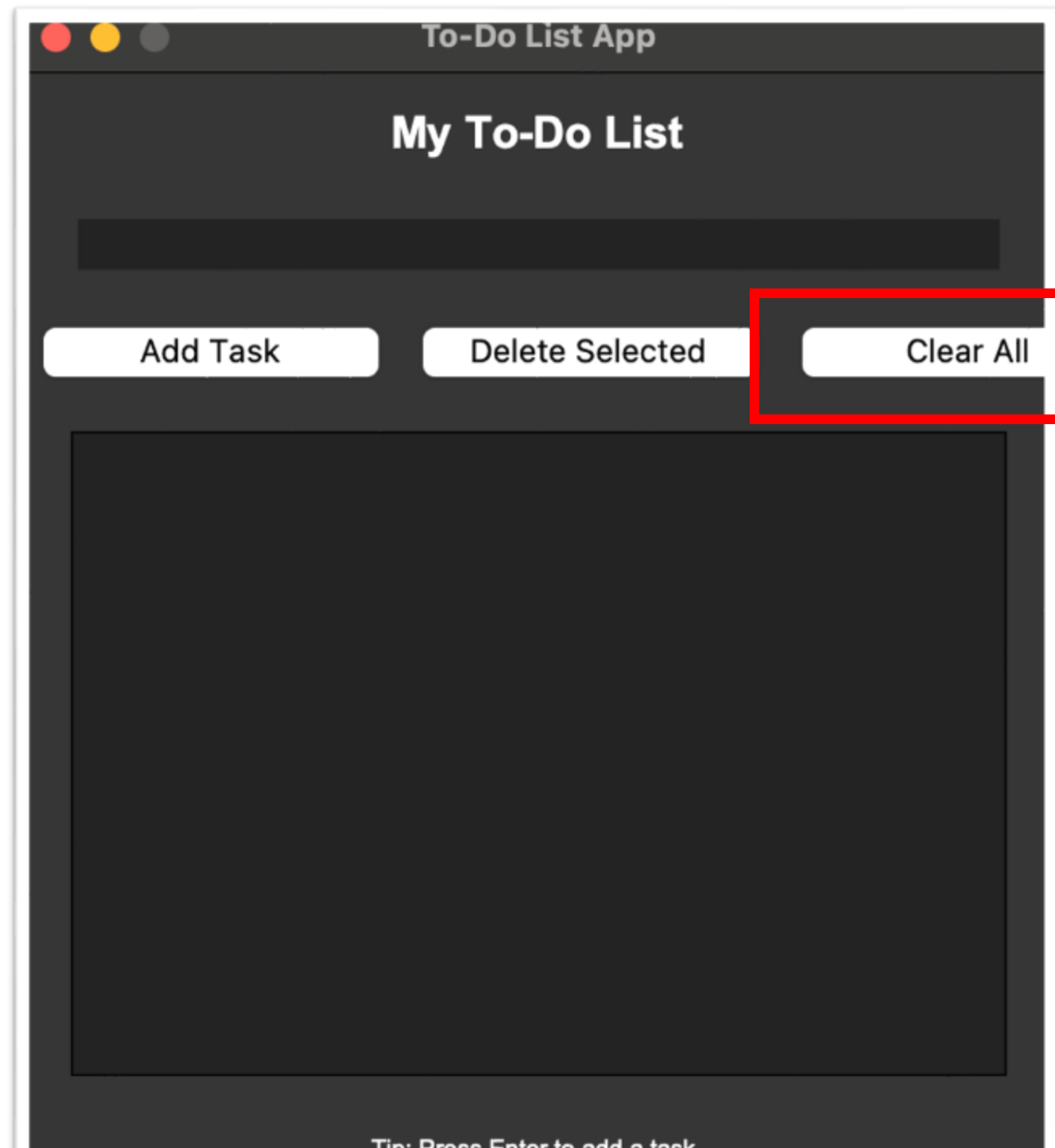
```
def delete_selected():  
    selected = task_listbox.curselection()  
    if not selected:  
        messagebox.showinfo("No Selection",  
                              "Select a task to delete.")  
        return  
    task_listbox.delete(selected[0])
```



App Function

Clear All

```
def clear_all():  
    if task_listbox.size() == 0:  
        messagebox.showinfo("Nothing to Clear",  
"The list is already empty.")  
        return  
    if messagebox.askyesno("Confirm",  
"Clear all tasks?"):  
        task_listbox.delete(0, tk.END)
```



App Function

Press enter to add task

```
def add_task_with_enter(event):  
    add_task()
```