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## Assignment 3

### Complex Design code :

```
import tkinter as tk

def complex_window():
    root = tk.Tk()
    root.title("Complex GUI")
    root.geometry("500x400")

    # Random placement of labels and entries
    tk.Label(root, text="Name:").place(x=30, y=30)
    tk.Entry(root).place(x=150, y=30)

    tk.Label(root, text="Age:").place(x=300, y=30)
    tk.Entry(root).place(x=350, y=30)

    tk.Label(root, text="Email:").place(x=50, y=80)
    tk.Entry(root).place(x=120, y=80)

    tk.Label(root, text="Phone:").place(x=280, y=120)
    tk.Entry(root).place(x=350, y=120)

    tk.Label(root, text="Gender:").place(x=70, y=180)
    tk.Entry(root).place(x=150, y=180)

    tk.Label(root, text="Address:").place(x=250, y=220)
    tk.Entry(root).place(x=330, y=220)
```

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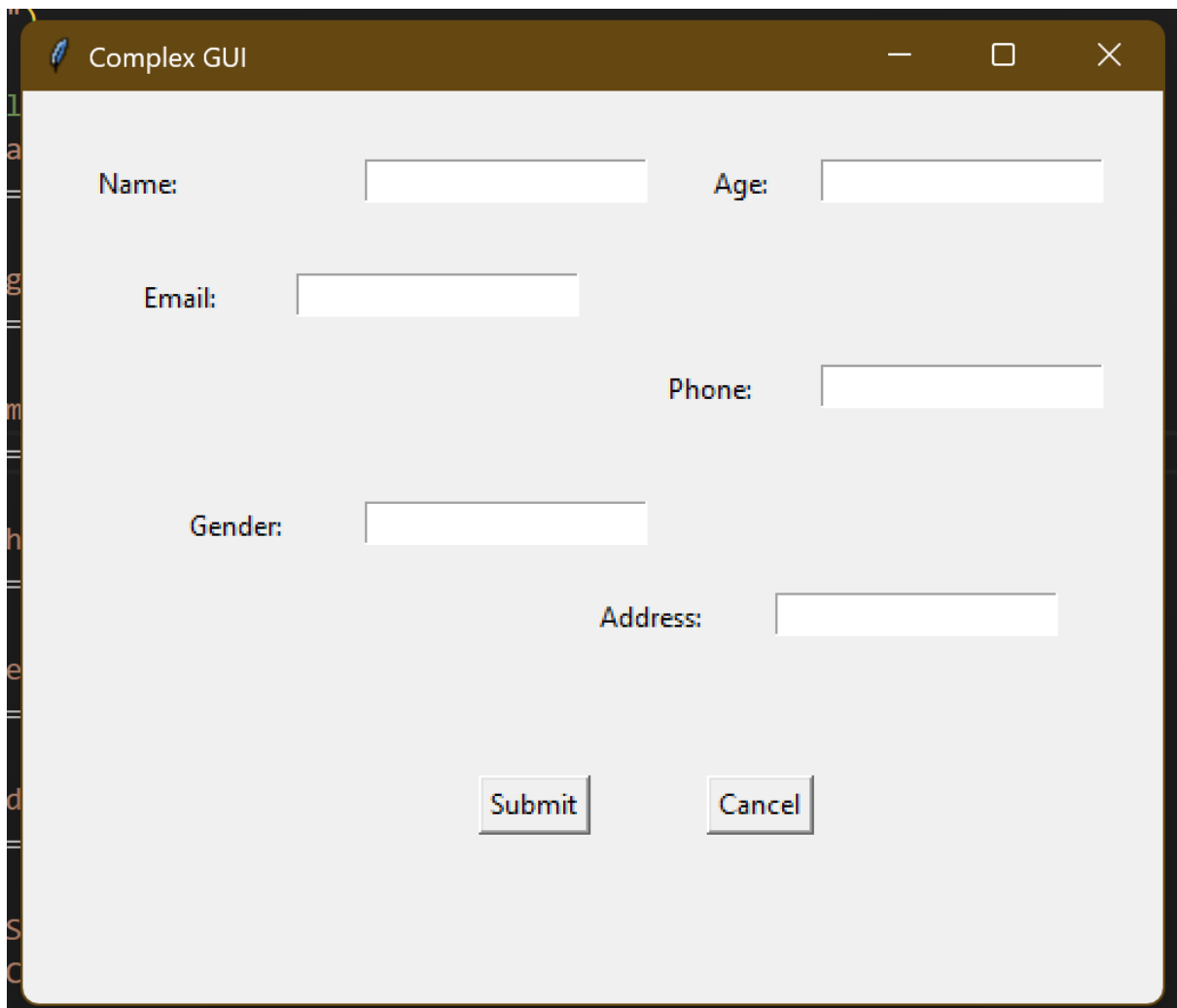
```
tk.Button(root, text="Submit").place(x=200, y=300)
```

```
tk.Button(root, text="Cancel").place(x=300, y=300)
```

```
root.mainloop()
```

```
complex_window()
```

## OUTPUT :



The screenshot shows a Tkinter window titled "Complex GUI" with a standard macOS-style title bar (brown with minimize, maximize, and close buttons). The window has a light gray background. It contains the following elements:

- Name:** A text label followed by a white rectangular input field.
- Age:** A text label followed by a white rectangular input field.
- Email:** A text label followed by a white rectangular input field.
- Phone:** A text label followed by a white rectangular input field.
- Gender:** A text label followed by a white rectangular input field.
- Address:** A text label followed by a white rectangular input field.
- Buttons:** Two buttons labeled "Submit" and "Cancel" are positioned at the bottom center of the window.

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### **Simplified Design code :**

```
import tkinter as tk
```

```
def simple_window():
```

```
    root = tk.Tk()
```

```
    root.title("Simplified GUI")
```

```
    root.geometry("400x350")
```

```
    # Organized layout with grid
```

```
    tk.Label(root, text="Name:").grid(row=0, column=0, padx=10, pady=5, sticky="w")
```

```
    tk.Entry(root).grid(row=0, column=1, padx=10, pady=5)
```

```
    tk.Label(root, text="Age:").grid(row=1, column=0, padx=10, pady=5, sticky="w")
```

```
    tk.Entry(root).grid(row=1, column=1, padx=10, pady=5)
```

```
    tk.Label(root, text="Email:").grid(row=2, column=0, padx=10, pady=5, sticky="w")
```

```
    tk.Entry(root).grid(row=2, column=1, padx=10, pady=5)
```

```
    tk.Label(root, text="Phone:").grid(row=3, column=0, padx=10, pady=5, sticky="w")
```

```
    tk.Entry(root).grid(row=3, column=1, padx=10, pady=5)
```

```
    tk.Label(root, text="Gender:").grid(row=4, column=0, padx=10, pady=5, sticky="w")
```

```
    tk.Entry(root).grid(row=4, column=1, padx=10, pady=5)
```

```
    tk.Label(root, text="Address:").grid(row=5, column=0, padx=10, pady=5, sticky="w")
```

```
    tk.Entry(root).grid(row=5, column=1, padx=10, pady=5)
```

```
    tk.Button(root, text="Submit").grid(row=6, column=0, padx=10, pady=20)
```

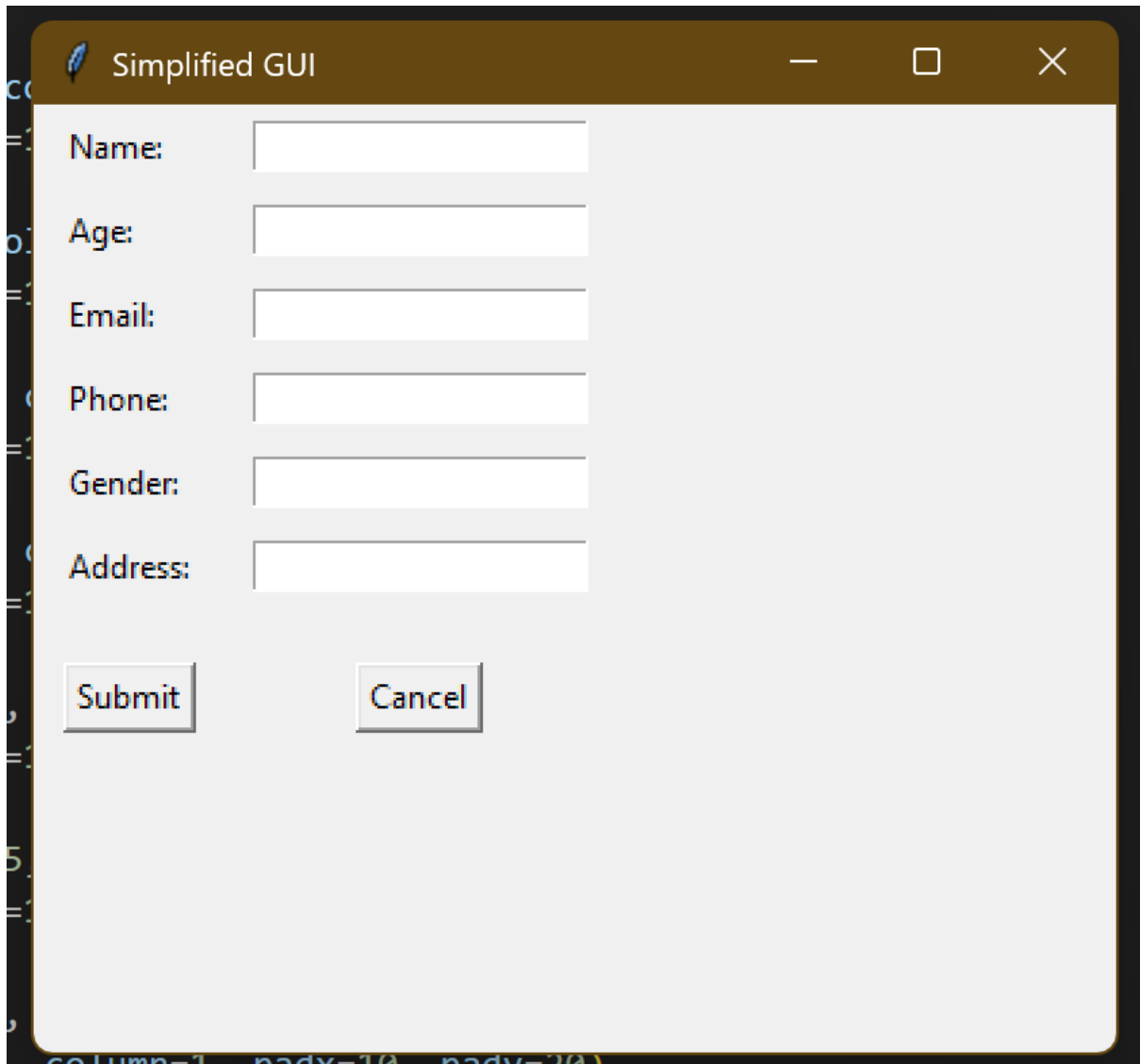
```
    tk.Button(root, text="Cancel").grid(row=6, column=1, padx=10, pady=20)
```

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```
root.mainloop()
```

```
simple_window()
```

**OUTPUT :**



The screenshot shows a window titled "Simplified GUI" with a dark brown header bar. Inside the window, there are six text input fields arranged vertically, each preceded by a label: "Name:", "Age:", "Email:", "Phone:", "Gender:", and "Address:". Below these fields are two buttons: "Submit" and "Cancel". The window has standard window control buttons (minimize, maximize, close) in the top right corner. The background of the window is light gray.