

TASK 11 :: use the Tkinter module for UI design 15/10/25

AIM: To design & implement a GUI program in Python using Tkinter, that allows students to Enter their Name, Age & Course.

Algorithm

1. start
2. Import required modules:
 - import tkinter as tk for GUI Components
 - import messagebox from tkinter for Pop-up messages
3. create the main window:
 - initialize the window using `root = tk.Tk()`
 - set title & size using `title()` & `geometry()`.
4. Add widgets
 - Add label widgets for "Name",
 - Add Entry widgets to take user input for each field
5. Define the submit form () function
 - Retrieve inputs using `.get()` method
6. Add a submit button:
 - Create a Button labeled submit
7. Display the window:

Program:

```
import tkinter as tk
from tkinter import messagebox

def submit_form():
    name = entry_name.get()
    age = entry_age.get()
    Course = Entry_Course.get()
    if name == "" or age == "" or Course == "":
        messagebox.showwarning("input error", "All fields are required!")
    else:
        messagebox.showinfo("form submitted", f"Name: {name}\nAge: {age}\nCourse: {Course}")

root = tk.Tk()
root.title("Student Registration Form")
root.geometry("350x250")
tk.Label(root, text="Student Registration", font=("Arial", 14, "bold")).pack(Pady=10)
tk.Label(root, text="Name:").pack()
entry_name = tk.Entry(root, width=30)
entry_name.pack()
tk.Label(root, text="Age:").pack()
entry_age = tk.Entry(root, width=30)
entry_age.pack()
tk.Label(root, text="Course:").pack()
entry_Course = tk.Entry(root, width=30)
entry_Course.pack()
```


Button(root, text = "submit", Command = submit, bg = "blue", fg = "white") . Pack (Pady=15)
root.mainloop()

OUTPUT:

Student Registration	
Name:	
Ravi	
Age	
20	
Course	
Flip	
Submit	

Name: Ravi
Age: 20
Course: Flip

8. End of Program

Case 1: When all fields are filled

Input

Name: John

Age: 20

Course: B.Tech

Output Message Box:

Form submitted

Name: John

Age: 20

Course: B.Tech

Case 2: When any field is Empty

Input:

Name: John

Age: 1

Course: B.Tech

Output message Box:

Input Error

All fields are required

VELTECH	
EX No.	11
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
WAVOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
WITH DATE	

Res:

Result: Thus, the Tkinter module for UI design has been verified successfully