

Task 11. Use thinker module for.

8/10/25

UI design.

Aim:- To design a simple GUI application using the Thinker module in python to collect and display student details such as Name, Roll number, Department, and Email.

Algorithm.

1. Start the program.
2. Import the thinker module and messagebox for UI components.
3. Create the main window using Tk() and set the window title, size, and background colour.
4. Add Labels and Entry widgets for:
 - Name.
 - Roll number.
 - Department
 - Email.
5. Create two buttons:
 - Submit: fetch and display entered details in a message box.
 - Clear: Reset all input fields to empty.
6. Define functions:
 - submit_details(): Collects and displays student data.
 - clear_fields(): Clears all entry fields.
7. Place all widgets using grid or pack layout.
8. Run the thinker main loop using root.mainloop().
9. End the program.

Program:

```
from tkinter import *  
from tkinter import messagebox.
```

```
def submit_details():
```

```
    name = name_entry.get()
```

```
    roll = roll_entry.get()
```

```
    dept = dept_entry.get()
```

```
    email = email_entry.get()
```

```
    if name == "" or roll == "" or dept == "" or  
        email == "":
```

```
        messagebox.showwarning("Input Error",  
                                "All fields are required!")
```

```
    else:
```

```
        info = f"Student Details:\n\nName: {name}\n
```

```
Roll number: {roll}\n Department: {dept}
```

```
Email:
```

```
messagebox.showinfo("Submitted Details", info).
```

```
def clear_fields():
```

```
    name_entry.delete(0, END)
```

```
    roll_entry.delete(0, END)
```

```
    dept_entry.delete(0, END)
```

```
    email_entry.delete(0, END)
```

```
# Main window
```

```
root = Tk()
```

```
root.title("Student Information form")
```

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

```
root.configure(bg="#d1f0f7")
```



```
Label (root, text = "Student Information form",  
      font = ("Arial", 16, "bold"), bg = "#d1f0f7").  
      pack (pady=1.
```

```
frame = frame (root, bg = "#d1f0f7")  
frame.pack (pady=10)
```

```
Label (frame, text = "Name:", font = ("Arial", 12),  
      bg = "#d1f0f7"). grid (row=0, column=0,  
      sticky=W, pady=1).
```

```
name-entry = Entry (frame, width=30)  
name-entry.grid (row=0, column=1)
```

```
Label (frame, text = "Roll Number:", font = ("Arial", 12),  
      bg = "#d1f0f7"). grid (row=1, column=0, sticky=W)
```

```
roll-entry = Entry (frame, width=30)  
roll-entry.grid (row=1, column=1)
```

```
Label (frame, text = "Department:", font = ("Arial", 12),  
      bg = "#d1f0f7"). grid (row=2, column=0, sticky=W)
```

```
dept-entry = Entry (frame, width=30)  
dept-entry.grid (row=2, column=1)
```

```
Label (frame, text = "Email:", font = ("Arial", 12),  
      bg = "#d1f0f7"). grid (row=3, column=0,  
      sticky=W).
```

```
email-entry = Entry (frame, width=30)  
email-entry.grid (row=3, column=1)
```

```
Button (root, text = "submit", width=12, bg = "#4caf50",  
      fg = "white", command = submit-details). pack
```


Sample Input

Name: Rahul sharma.

Roll number: 102.

Department: computer science.

Email: rahul.sharma@gmail.com

output

Student Details:

Name: Rahul sharma.

Roll number: 102.

Department: computer science.

Email: rahul.sharma@gmail.com.

Button (root, text="clear", width=12, bg="#f44336",
fg="white", command=clear_field). pack.
(padx=5)

root.mainloop()

EX No.	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH DATE	

Result: The student information from GUI was
successfully created using Thinter. 14/10/25