Task 11:- Use thinker module for 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 message box. 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 toidgets using grid or pack layout.
8. Run the thinker main loop using root.mainloop().
9. End the program.

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Program :-
From thinker import
From thinker 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 == "";
    Message box. Showwarming ["Input Error" "All field
                Are required!").
else:
        info = f"student Details: \n\n Name : {name} \n.
            Roll number : {roll} \n Department : {dept} \n Email:
    Message box : show info ("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 ("400 x 350")
root. configure (bg = "#d1f0f7")
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label Label, 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 (crow = 0, column = 0,
        Stricky = w, Pady = 1).
name — entry = Entry (frame, width = 30)
name — entry grid (now = 0, column = 1)
label (frame, text = " Roll number:", font = ("Arial, 12),
            bg = " #d1f0f7") grid (row = 1, column = 0, Sticky = w)
roll — entry = Entry (frame, wid th 30).
roll — entry . grid (row = 1, column = 1)
label (frame, text = "De partment:", font = ("Arial, 12),
            big = " #d1f0f7") grid (row = 2, column = 0, Stricky = 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 = "#ff444331",
    fg = "white", command = clear - fields). pack.
        (pady=5)
root. Mainloop ().
```

Result:- The student information from GUI was successfully created using Thinker.

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