Task:11 use + tinter module for UI design

Aim:- To design a simple GUI application using the tkinter 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 tkinter 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():- clear all entry fields.

7. place all widgets using grid or pack layout.

8. Run the tkinter 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 . set ()
    dept = dept - entry . entry . get ()
    email = email - entry . get ()
    if name == "" or roll == "" or dept == "" or
        email == "" :
        message box show warning ("Input - error",
            "All fields are required!")
    else:-
        info = f" student Details = \n\n Name : {name}
        Roll Number = {roll}\n Department = {dept}
                                         \n Email:-
        message box . shown fo ('submitted Details'
                             info)

def clear - field ():
    name . entry .delete (0, END)
    roll - entry . delete (0, END)
    dept. entry . delete (0, END)
    email . entry . delete (0, END)
```

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.

```python
# main window
root = Tk()
root.title("student  information form")
root.geometry("400 x 350")
root.configure(log = "# d.fof.a")
label (root, tent = "student  Information Form"
    font = ("Arial", 16", bold") ,bg = "# d, fof.y")
        Pack (Pady =)

frame = frame (root, bg= "# d, fof.y")
frame = pack (pady = 10)
Label. frame(opf =1, Name =", font =(: Areal" , 12),
    bg= "# d.fof.a"), grid (row =0, column =0,
        sticky =w, (ady=1)

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

Label (1=name , text = " Roll Number:", font =('Arial , 12)
    bg = "# d, ('of.y") . grid (row =1, column =0, sticky=w)
    roll -entry = Entry (frame , width 30)
    roll - entry . grid(row # column=1)
Label (frame , text = "De partment :", font=('Avial',12)
    b.g : "# do.fof.y") . grid (row=2, colum =0,sticky=w)
dept -entry = Entry (frame , width =30)
dept -entry .grid (row =h, column=1)
Label . frame .text = " Email:", font =("Arial ", 12),
```

```python
bg= "#.d.faf 7h.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="4050",
fg= "while", command = submit_details). pack

Button (root, text ", char", width =12, bg="#4436",
fg="while", command = clear_field). pack

       (padg =c)
root.main loop()
```

Result the student information from trust
was Successfully creates wing Tkinter
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