Task-11 : use tkinter module for UI design.

Aim:- To design a simple GUI application using thinker that collects and displays student details such as Name, Roll number, Department and email with option to submit and clear the form

Algorithm:

1. import tkinter module
2. create the main window using Tk()
3. set window title, geometry, and background color
4. create labels and entry widgets for
   - Name
   - Roll number
   - Department
   - email

5. create two buttons:
   - Submit
   - clear

6. Arrange widgets using the grid() layout manager
7. Run the tkinter main loop using mainloop()

Program:-

```
from tkinter import
from tkinter import messagebox
root = Tk()
root.title ("student information form")
root.geometry ("400x350")
root.configure(bg ="#d0c6f6")
def submit-details():
    name=name-entry.get()
    roll=roll_entry.get()
    dept = dept-entry.get()
    email=email-entry.get()
```

Sample output:-

Name:- Rahul sharma.

Roll number: 102.

Department:- computer science.

Email:- rahul.sharma@gmail.com.

Output:-

(• A window titled "student information form"

 • fields : Name, Roll number, department and email

 • Buttons : submit and clear.)

Student Details :-

Name:- Rahul sharma.

Roll number:- 102

Department:- computer science.

Email :- rahul.sharma@gmail.com.

```
┌─────────────────────────────────────────┐
│     student Information.                  │
│                                           │
│  Name :-  │ Rahul sharma . │              │
│                                           │
│  Roll number :-   │ 102 │                 │
│                                           │
│  Department :-  │ computer science │      │
│                                           │
│  Email :-   │ rahul.sharma @gmail.com │   │
│                                           │
│  │ submit │ :-    │ clear. │              │
└─────────────────────────────────────────┘
```

```python
if name == "" or roll == "" or dept == "" or email == "":
    messagebox.showwarning("Input Error")
else:
    print f"Name: {name}, ID Roll number: {roll}"

def clear_fields():
    name_entry.delete(0, END)
    roll_entry.delete(0, END)
    dept_entry.delete(0, END)
    email_entry.delete(0, END)
```

Result:-

Thus, GUI based student information form was successfully creater using tkinter.