

6/10/25 Task-11 : Use tkinter module for UI design.

- Aim :- To design a simple GUI application using tkinter 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 the tkinter module.
2. Create the main window (window).
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 mainloop using mainloop()

Program:-

```
#!/usr/bin/python3
from tkinter import *
from tkinter import messagebox
root = Tk()
root.title("Student information form")
root.geometry("400x350")
root.configurebg="#d0c6f6"

def submit_details():
    name=name_entry.get()
    roll=roll_entry.get()
    dept=dept_entry.get()
    email=email_entry.get()

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

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 :-

Roll number :-

Department :-

Email :-

submit :-

```

if name == "" or roll == "" or dept == "" or email == "":
    messagebox.showwarning("Input Error")
else:
    info = "Name:{}\nRoll number:{}\nDept:{}\nEmail:{}"

```

def clear_fields():

```

name_entry.delete(0, END)
roll_entry.delete(0, END)
dept_entry.delete(0, END)
email_entry.delete(0, END)

```

Clear fields on button click

Set entry field length, and enter max number of lines

Set entry field width

Set entry field height

Set entry field font

Set entry field background color

Set entry field foreground color

Set entry field border width

Set entry field border color

Set entry field border style

Set entry field border radius

Set entry field border thickness

Set entry field border color

Set entry field border style

Set entry field border radius

Set entry field border thickness

Set entry field border color

Set entry field border style

Set entry field border radius

Set entry field border thickness

VEL TECH - CSE	
REG NO	11
PERFORMANCE (5)	5
TEST AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	1
TOTAL (20)	25
SIGN WITH DATE	8/3/2023

Result:-

Thus, GUI based Student information form was successfully created using tkinter.

15/10/23