9.	24/09/25	Implement Exceptions and Exception Handling in python		
10.	24/09/25	Use the Matplotlib Module for plotting in Python		
11.	08/10/25	Use the Tkinter Module for UI design	15	15/10/25
12.	08/10/25	Simulate gaming concepts Using Pygame		

8/10/25 Task-11: Use tKinter module for GUI 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 widgets using grid or pack layout.
8. Run the thinker main loop using root.mainloop().
9. End the program.

Program:-

```
from thinker import
from thinker import message box
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 . show warning ("Input Error", "All fields are
                                required !")
else :
    info = f "student Details : \n\n Name : {name} \n
        Roll number : {roll} \n Department : {dept} \n Email :
    message box . 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 numbers :", 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), big =
                "# 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)
```

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: sharma@gmail.com

```
email_entry = Entry (frame, width=20)
email_entry.grid (row=2, column=1)
Button (root, text="Submit", width=12, bg="#4CAF50",
        fg="White", command=submit_details).pack
Button (root, text="Clear", width=12, bg="#f44336",
        fg="White", command=clear_fields).pack(pady=5)
root.mainloop().
```

VEL TECH - CSE	
EX NO.	11
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	25
SIGN WITH DATE	

Result:

The student information from GUI was successfully Created using Thinker.

25/10/25

25/10/25