

EXPERIMENT - 3

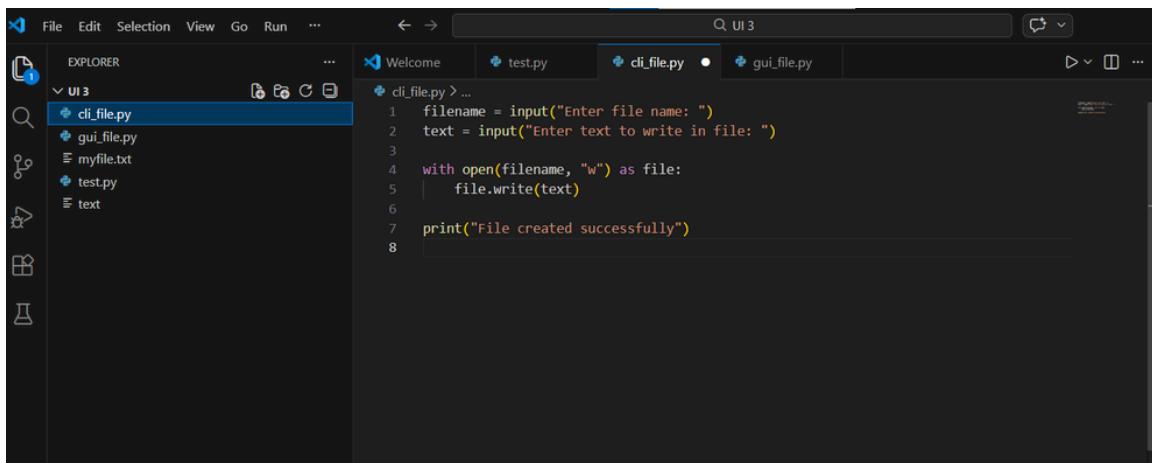
AIM :

To implement **Command Line Interface (CLI)**, **Graphical User Interface (GUI)**, and **Voice User Interface (VUI)** in Python to perform a **simple file operation**.

Procedure for CLI (Command Line Interface)

1. Open Visual Studio Code.
2. Create a new Python file.
3. Write Python code to accept input using the keyboard.
4. Perform a file operation using the input.
5. Run the program in the terminal and verify the file creation.

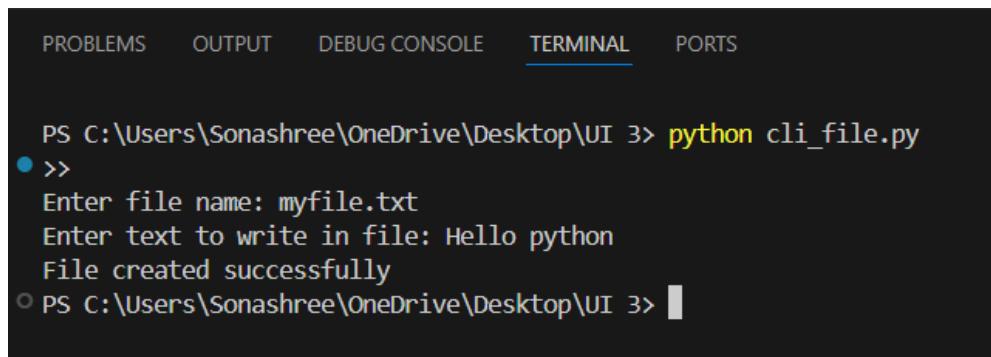
IMPLEMENTATION :



The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left lists files: 'cli_file.py' (selected), 'gui_file.py', 'myfile.txt', 'test.py', and 'text'. The code editor on the right contains the following Python code:

```
cli_file.py > ...
1 filename = input("Enter file name: ")
2 text = input("Enter text to write in file: ")
3
4 with open(filename, "w") as file:
5     file.write(text)
6
7 print("File created successfully")
8
```

OUTPUT:



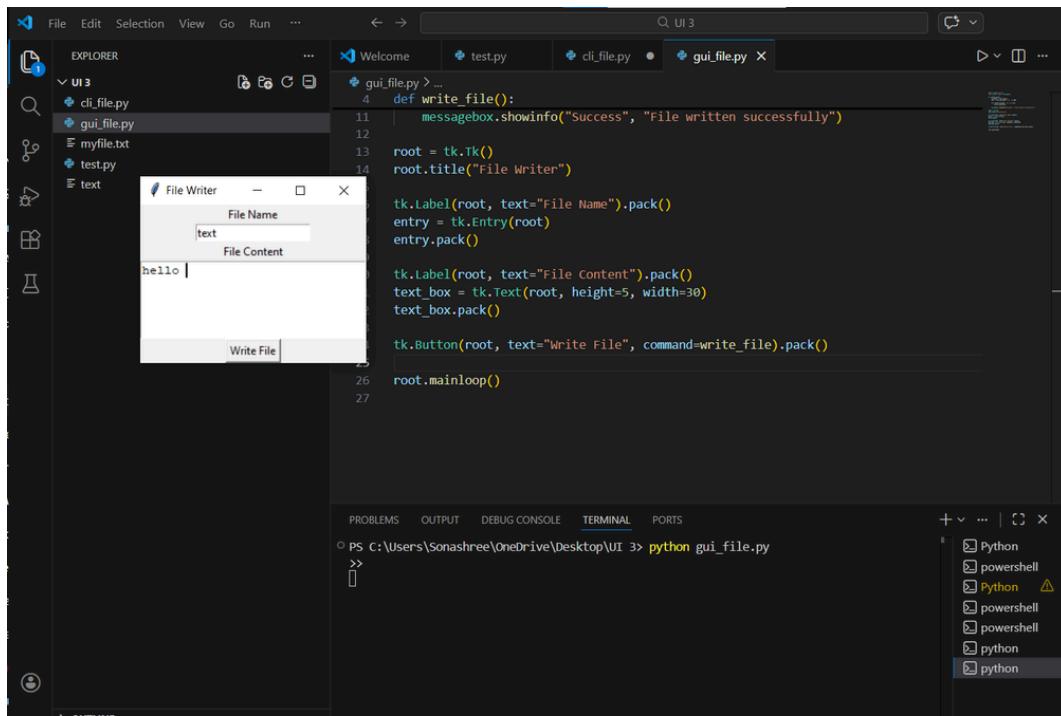
The screenshot shows the VS Code terminal tab. The terminal output is as follows:

```
PS C:\Users\Sonashree\OneDrive\Desktop\UI 3> python cli_file.py
>>>
Enter file name: myfile.txt
Enter text to write in file: Hello python
File created successfully
PS C:\Users\Sonashree\OneDrive\Desktop\UI 3>
```

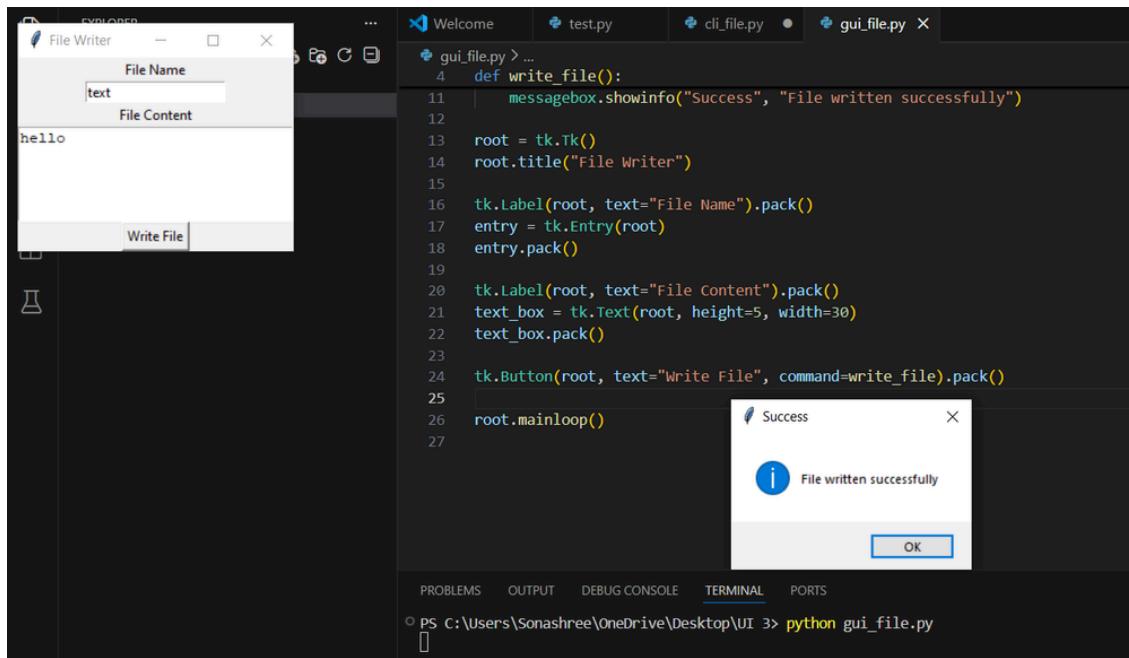
Procedure for GUI (Graphical User Interface)

1. Open Visual Studio Code.
2. Create a new Python file.
3. Import the Tkinter library.
4. Design a simple window with text fields and a button.
5. Write Python code to perform file operation on button click.
6. Run the program and verify the output file.

IMPLEMENTATION :



OUTPUT:



Procedure for VUI (Voice User Interface)

1. Open Visual Studio Code.
2. Install required speech recognition libraries.
3. Create a new Python file.
4. Use microphone input to capture voice.
5. Convert voice input into text.
6. Perform file operation using the converted text.
7. Run the program and verify the output file.

IMPLEMENTATION AND OUTPUT :

```
PS C:\Users\Shree\OneDrive\Desktop\uid> python amutham_cafe_vui.py
y
➤ Say Breakfast, Lunch, or Snacks...
You said: breakfast

--- AMUTHAM CAFE Voice Menu ---
[Dosa] Dosa
[Pongal] Pongal
[Filter Coffee] Filter Coffee
PS C:\Users\Shree\OneDrive\Desktop\uid>
```

RESULT :

Thus, the Python programs for Command Line Interface (CLI), Graphical User Interface (GUI), and Voice User Interface (VUI) were successfully implemented to perform a simple file operation, and the output was verified.