

Different UI Approaches

CLI (Command Line Interface)

In CLI, we use command prompt for the two inputs: old file name, new file name

Firstly, navigate to the folder where both the python script and our target file is present using `cd` command.

Then, using Python's `os.rename()` function, we rename the file.

If the file was not found, an error message is displayed.

Specific errors are also displayed.

```
C:\Users\DELL>cd C:\Users\DELL\Documents\SEM 4\UID\EXP  
  
C:\Users\DELL\Documents\SEM 4\UID\EXP>python rename_file_cli.py t1.txt t2.txt  
File renamed from t1.txt to t2.txt
```

GUI (Graphical User Interface)

In GUI, a small window is created using Tkinter, Python's built-in library.

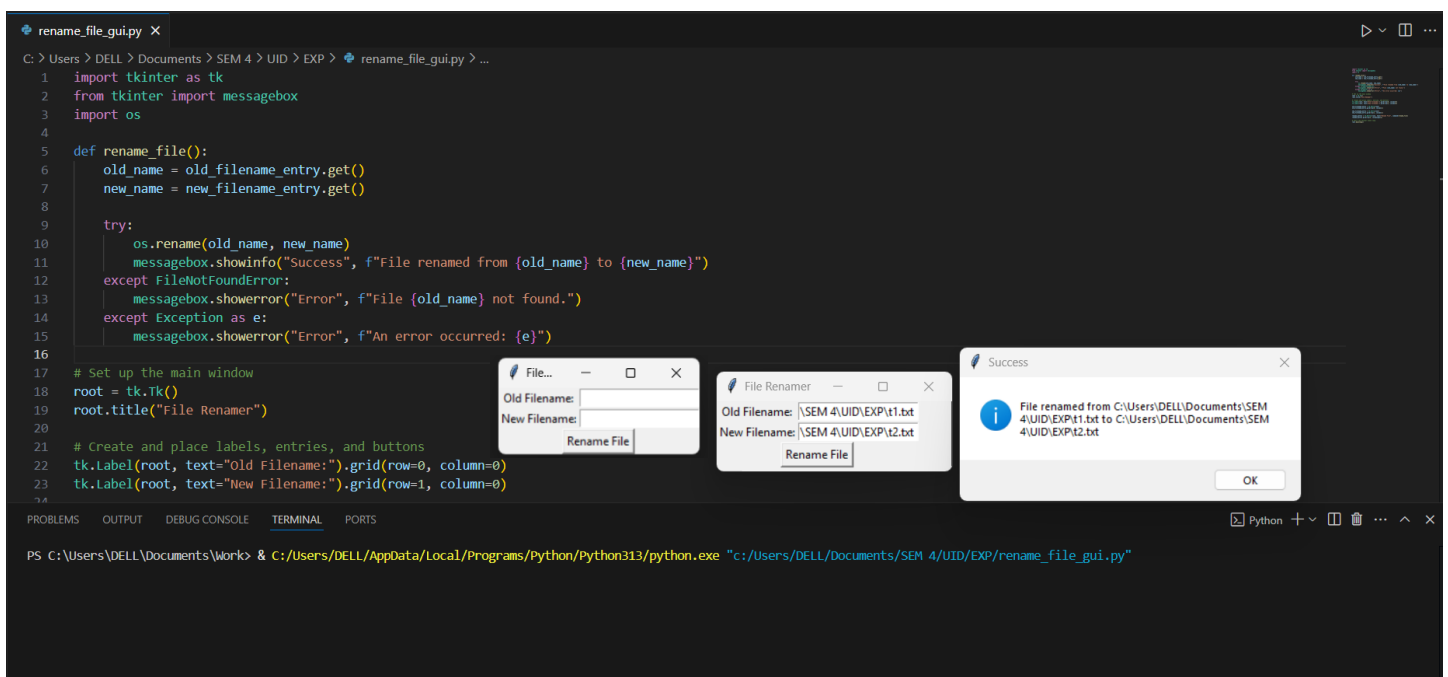
It has two input fields:

- Current file name
- New file name

Rename file button does the following:

- Change file name using `os.rename()`, a successful message.
- Else, an error popup

In here, we mention the complete file path in both the input fields to work correctly if they aren't present in the current directory.



VUI (Voice User Interface)

In VUI, we use a speech recognition tool for voice commands. It uses Google Speech Recognition to convert speech to text. The script assumes a command as in simple english format like:
"Rename file old_name.txt to new_name.txt"
If the speech is unclear, error is thrown.

```
PS C:\Users\DELL> & C:/Users/DELL/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/DELL/Documents/SEM 4/UID/EXP/rename_file_vui.py"
Listening for command to rename a file...
Sorry, I couldn't understand the command.
PS C:\Users\DELL> & C:/Users/DELL/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/DELL/Documents/SEM 4/UID/EXP/rename_file_vui.py"
Listening for command to rename a file...
Command received: Rename t1.txt to t2.txt
CHANGED SUCCESSFULLY FROM OLD NAME TO NEW NAME.
```