

# 1.CLI(Command Line Interface)

```
prny.py > ...
1  import os
2  import sys
3
4  def rename_file(old_name, new_name):
5      try:
6          os.rename(old_name, new_name)
7          print(f"File renamed from {old_name} to {new_name}")
8      except FileNotFoundError:
9          print(f"Error: {old_name} not found.")
10     except Exception as e:
11         print(f"An error occurred: {e}")
12
13 if __name__ == "__main__":
14     if len(sys.argv) != 3:
15         print("Usage: python rename_fie_cli.py <old_filename> <new_filename>")
16     else:
17         rename_file(sys.argv[1], sys.argv[2])
18
19
```

## Output:

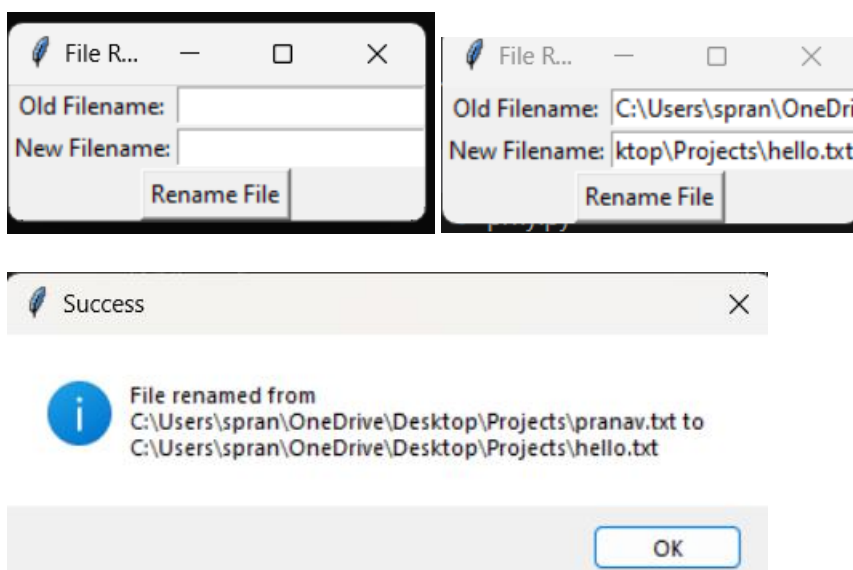
```
C:\Users\spran\OneDrive\Desktop\Projects>python prny.py hello.txt pranav.txt
File renamed from hello.txt to pranav.txt

C:\Users\spran\OneDrive\Desktop\Projects>|
```

## 2.GUI(Graphical User Interface)

```
pranav.py > ...
1 import tkinter as tk
2 from tkinter import messagebox
3 import os
4
5 def rename_file():
6     old_name = old_filename_entry.get()
7     new_name = new_filename_entry.get()
8
9     try:
10         os.rename(old_name, new_name)
11         messagebox.showinfo("Success", f"File renamed from {old_name} to {new_name}")
12     except FileNotFoundError:
13         messagebox.showerror("Error", f"File {old_name} not found.")
14     except Exception as e:
15         messagebox.showerror("Error", f"An error occurred: {e}")
16
17 # Set up the main window
18 root = tk.Tk()
19 root.title("File Renamer")
20
21 # Create and place labels, entries, and buttons
22 tk.Label(root, text="Old Filename:").grid(row=0, column=0)
23 tk.Label(root, text="New Filename:").grid(row=1, column=0)
24
25 old_filename_entry = tk.Entry(root)
26 old_filename_entry.grid(row=0, column=1)
27
28 new_filename_entry = tk.Entry(root)
29 new_filename_entry.grid(row=1, column=1)
30
31 rename_button = tk.Button(root, text="Rename File", command=rename_file)
32 rename_button.grid(row=2, columnspan=2)
33
34 # Start the Tkinter event loop
35 root.mainloop()
36
```

Output:



### 3.VUI(Voice User Interface)

```
# v_pranav.py > rename_file_from_voice_command
1 import speech_recognition as sr
2 import os
3
4 def rename_file_from_voice_command(command):
5     """Extracts filenames from speech and renames the file."""
6     try:
7         words = command.lower().split() # Convert to lowercase & split words
8
9         # Convert "dot txt" to ".txt"
10        processed_words = []
11        i = 0
12        while i < len(words):
13            if words[i] == "dot" and i + 1 < len(words) and words[i + 1] == "txt":
14                processed_words.append(".txt") # Replace "dot txt" with ".txt"
15                i += 2 # Skip "dot txt"
16            else:
17                processed_words.append(words[i])
18                i += 1
19
20        # Extract filenames
21        if "to" in processed_words:
22            to_index = processed_words.index("to")
23
24            if to_index > 0 and to_index < len(processed_words) - 1:
25                old_name = "".join(processed_words[:to_index]) + ".txt" # Before "to"
26                new_name = "".join(processed_words[to_index + 1:]) + ".txt" # After "to"
27
28                if os.path.exists(old_name):
29                    os.rename(old_name, new_name)
30                    print(f"File renamed from '{old_name}' to '{new_name}'")
31                else:
32                    print(f"Error: File '{old_name}' not found.")
33            else:
34                print("Invalid command format. Use: 'rename oldfile to newfile'")
35        else:
36            print("Command must contain 'to' for renaming.")
37
```

```

38     except Exception as e:
39         print(f"Error: {e}")
40
41 def listen_for_command():
42     """Listens for a voice command and processes it."""
43     recognizer = sr.Recognizer()
44
45     try:
46         with sr.Microphone() as source:
47             print("Listening for command to rename a file...")
48             recognizer.adjust_for_ambient_noise(source)
49             audio = recognizer.listen(source)
50
51             # Convert speech to text
52             command = recognizer.recognize_google(audio)
53             print(f"Command received: {command}")
54
55             # Process the command
56             rename_file_from_voice_command(command)
57
58     except sr.UnknownValueError:
59         print("Sorry, I couldn't understand the command.")
60     except sr.RequestError as e:
61         print(f"Could not request results from Google Speech Recognition service; {e}")
62     except Exception as e:
63         print(f"Unexpected error: {e}")
64
65 if __name__ == "__main__":
66     listen_for_command()
67

```

## Output:

```

PS C:\Users\spran\OneDrive\Desktop\Projects> & 'c:\Users\spran\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\spran\.vscode\extensions\ms-python.debugpy-2025.0.0-win32-x64\bundle\libs\debugpy\launcher' '51198' '--' 'C:\Users\spran\OneDrive\Desktop\Projects\v_pranav.py'
Listening for command to rename a file...
Command received: Pranav to hello
File renamed from 'pranav.txt' to 'hello.txt'
PS C:\Users\spran\OneDrive\Desktop\Projects>

```