

## EXP NO 3

### CLI (Command Line Interface)

For the **CLI**, you can provide a Python script that renames a file via command-line arguments. Here's how you could implement it:

#### Python Code

```
import os
```

```
import sys
```

```
def rename_file(old_name, new_name):
```

```
    try:
```

```
        os.rename(old_name, new_name)
```

```
        print(f'File renamed from {old_name} to {new_name}')
```

```
    except FileNotFoundError:
```

```
        print(f'Error: {old_name} not found.')
```

```
    except Exception as e:
```

```
        print(f'An error occurred: {e}')
```

```
if __name__ == "__main__":
```

```
    if len(sys.argv) != 3:
```

```
        print("Usage: python rename_file_cli.py <old_filename>  
<new_filename>")
```

```
    else:
```

```
        rename_file(sys.argv[1], sys.argv[2])
```

```
>>> ===== RESTART: C:/Users/PKSAB/OneDrive/Documents/nlp proj.py =====  
>>> Usage: python rename_file_cli.py <old_filename> <new_filename>  
Ln: 54 Col: 0
```

## GUI (Graphical User Interface)

In the **GUI**, we will use **Tkinter** to create a simple interface where the user can type the old and new filenames.

```
import tkinter as tk
```

```
from tkinter import messagebox
```

```
import os
```

```
def rename_file():
```

```
    old_name = old_filename_entry.get()
```

```
    new_name = new_filename_entry.get()
```

```
    try:
```

```
        os.rename(old_name, new_name)
```

```
        messagebox.showinfo("Success", f"File renamed from  
{old_name} to {new_name}")
```

```
    except FileNotFoundError:
```

```
        messagebox.showerror("Error", f"File {old_name} not found.")
```

```
    except Exception as e:
```

```
        messagebox.showerror("Error", f"An error occurred: {e}")
```

```
# Set up the main window
```

```
root = tk.Tk()
```

```
root.title("File Renamer")
```

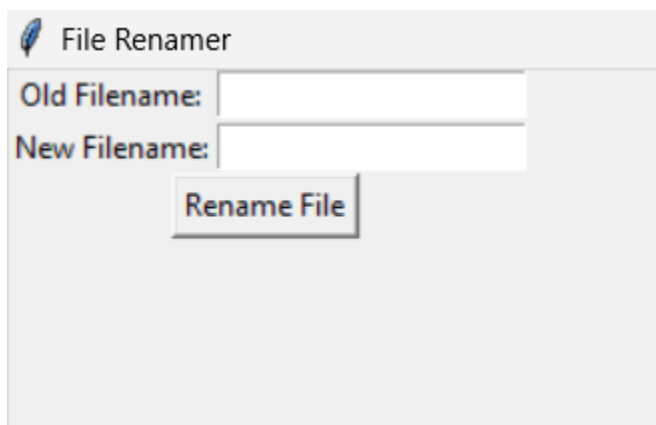
```
# Create and place labels, entries, and buttons
tk.Label(root, text="Old Filename:").grid(row=0, column=0)
tk.Label(root, text="New Filename:").grid(row=1, column=0)

old_filename_entry = tk.Entry(root)
old_filename_entry.grid(row=0, column=1)

new_filename_entry = tk.Entry(root)
new_filename_entry.grid(row=1, column=1)

rename_button = tk.Button(root, text="Rename File",
command=rename_file)
rename_button.grid(row=2, columnspan=2)

# Start the Tkinter event loop
root.mainloop()
```



## VUI (Voice User Interface)

For the **VUI**, we can use the **SpeechRecognition** library to listen for voice commands. The user will say something like, "Rename oldfilename.txt to newfilename.txt."

```
import speech_recognition as sr
```

```
import os
```

```
def rename_file_from_voice_command(command):
```

```
    # Extracting old and new filename from the command
```

```
    try:
```

```
        words = command.split(" ")
```

```
        old_name = words[1]
```

```
        new_name = words[3]
```

```
        os.rename(old_name, new_name)
```

```
        print(f'File renamed from {old_name} to {new_name}')
```

```
    except Exception as e:
```

```
        print(f'Error: {e}')
```

```
def listen_for_command():
```

```
    recognizer = sr.Recognizer()
```

```
    mic = sr.Microphone()
```

```
    print("Listening for command to rename a file...")
```

```
    with mic as source:
```

```
recognizer.adjust_for_ambient_noise(source)
audio = recognizer.listen(source)

try:
    command = recognizer.recognize_google(audio)
    print(f'Command received: {command}')
    rename_file_from_voice_command(command)
except sr.UnknownValueError:
    print("Sorry, I couldn't understand the command.")
except sr.RequestError as e:
    print(f'Could not request results from Google Speech
Recognition service; {e}')

if __name__ == "__main__":
    listen_for_command()
```