

## EXPERIMENT-3

NAME: Thaneshwar M

ROLL NO: 240701561

### 1.COMMAND LINE INTERFACE:

#### 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}")

def survey():
    print("Rate your satisfaction with the following interfaces (1-5):")
    cli_satisfaction = int(input("CLI (1-5): "))
    gui_satisfaction = int(input("GUI (1-5): "))
    vui_satisfaction = int(input("VUI (1-5): "))
    print(f"\nYour satisfaction ratings:")
    print(f"CLI: {cli_satisfaction}")
    print(f"GUI: {gui_satisfaction}")
    print(f"VUI: {vui_satisfaction}")

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])
        survey()
```

## CODE PIC:

```
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])
```

## OUTPUT:

```
PS D:\Ui exp> python python.py thanu.txt example.txt
File renamed from thanu.txt to example.txt
```

## 2.GRAPHICAL USER INTERFACE:

### PYTHON CODE:

```
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}")

root = tk.Tk()
root.title("File Renamer")
```

```
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)
```

```
root.mainloop()
```

```
def survey():
    print("Rate your satisfaction with the following interfaces (1-5):")
    cli_satisfaction = int(input("CLI (1-5): "))
    gui_satisfaction = int(input("GUI (1-5): "))
    vui_satisfaction = int(input("VUI (1-5): "))
    print(f"\nYour satisfaction ratings:")
    print(f"CLI: {cli_satisfaction}")
    print(f"GUI: {gui_satisfaction}")
    print(f"VUI: {vui_satisfaction}")
survey()
```

## CODE PIC:

```
import tkinter as tk
from tkinter import messagebox
import os

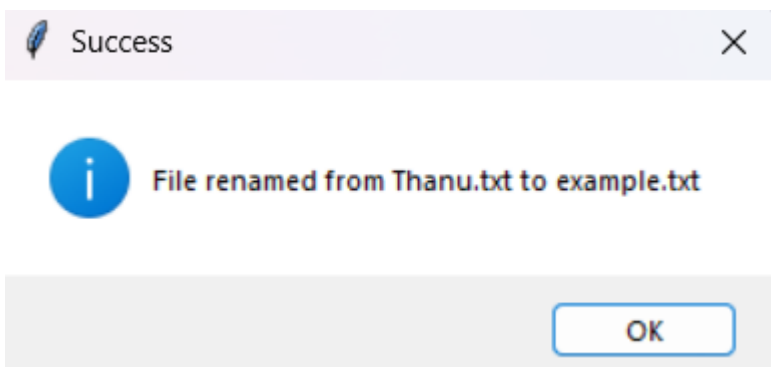
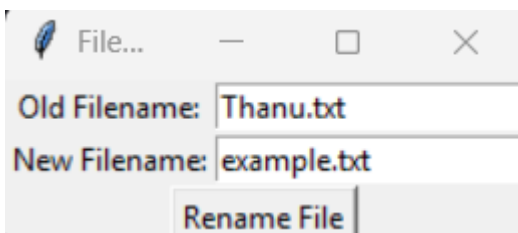
def rename_file():
    old_name = old_filename_entry.get()
    new_name = new_filename_entry.get()
    try:
        os.rename(old_name, new_name)
        messagebox.showinfo("Success", f"File renamed from {old_name} to {new_name}")
    except FileNotFoundError:
        messagebox.showerror("Error", f"File {old_name} not found.")
    except Exception as e:
        messagebox.showerror("Error", f"An error occurred: {e}")

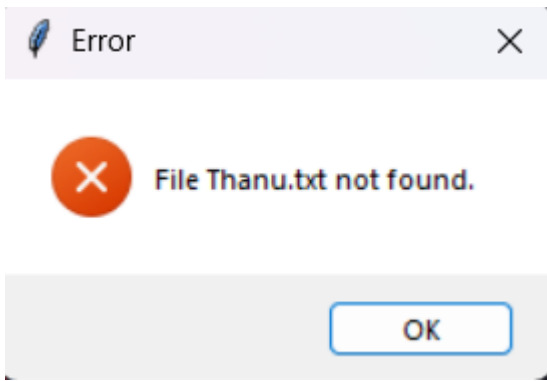
root = tk.Tk()
root.title("File Renamer")

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)

root.mainloop()
```

## OUTPUT:





### 3.VOICE USER INTERFACE:

#### PYTHON CODE:

```
import speech_recognition as sr
import os

def listen_once(prompt):
    recognizer = sr.Recognizer()
    mic = sr.Microphone()

    print(prompt)
    with mic as source:
        recognizer.adjust_for_ambient_noise(source, duration=1)
        audio = recognizer.listen(source)

    try:
        text = recognizer.recognize_google(audio)
        text = text.lower().strip()
        text = text.replace("dot", ".").replace(" ", "")
        print("Heard:", text)
        return text

    except sr.UnknownValueError:
        print("Could not understand audio.")
        return None
    except sr.RequestError as e:
        print(f"Speech service error: {e}")
        return None

def rename_file_from_voice():
    old_name = listen_once("Say the OLD file name:")
    if not old_name:
```

```

    print("Old filename not captured.")
    return

new_name = listen_once("Say the NEW file name:")
if not new_name:
    print("New filename not captured.")
    return

try:
    os.rename(old_name, new_name)
    print(f"File renamed from '{old_name}' to '{new_name}'")

except FileNotFoundError:
    print(f"File '{old_name}' not found.")
except FileExistsError:
    print(f"File '{new_name}' already exists.")
except Exception as e:
    print(f"Error: {e}")

def survey():
    print("Rate your satisfaction with the following interfaces (1-5):")
    cli_satisfaction = int(input("CLI (1-5): "))
    gui_satisfaction = int(input("GUI (1-5): "))
    vui_satisfaction = int(input("VUI (1-5): "))
    print(f"\nYour satisfaction ratings:")
    print(f"CLI: {cli_satisfaction}")
    print(f"GUI: {gui_satisfaction}")
    print(f"VUI: {vui_satisfaction}")

if __name__ == "__main__":
    print("Voice Controlled File Renamer")
    rename_file_from_voice()
    survey()

```

## CODE PIC:

```
import speech_recognition as sr
import os

def listen_once(prompt):
    recognizer = sr.Recognizer()
    mic = sr.Microphone()

    print(prompt)
    with mic as source:
        recognizer.adjust_for_ambient_noise(source, duration=1)
        audio = recognizer.listen(source)

    try:
        text = recognizer.recognize_google(audio)
        text = text.lower().strip()
        text = text.replace("dot", ".").replace(" ", "")
        print("Heard:", text)
        return text

    except sr.UnknownValueError:
        print("Could not understand audio.")
        return None
    except sr.RequestError as e:
        print(f"Speech service error: {e}")
        return None

def rename_file_from_voice():
    old_name = listen_once("Say the OLD file name:")
    if not old_name:
        print("Old filename not captured.")
        return

    new_name = listen_once("Say the NEW file name:")
    if not new_name:
        print("New filename not captured.")
        return

    try:
        os.rename(old_name, new_name)
        print(f"File renamed from '{old_name}' to '{new_name}'")

    except FileNotFoundError:
        print(f"File '{old_name}' not found.")
    except FileExistsError:
        print(f"File '{new_name}' already exists.")
    except Exception as e:
        print(f"Error: {e}")

if __name__ == "__main__":
    print("Voice Controlled File Renamer")
    rename_file_from_voice()
```

## OUTPUT:

```
Voice Controlled File Renamer  
Say the OLD file name:  
Heard: example.txt  
Say the NEW file name:  
Heard: example1.txt  
File renamed from 'example.txt' to 'example1.txt'
```