## **EXPERIMENT-3**

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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}")
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:
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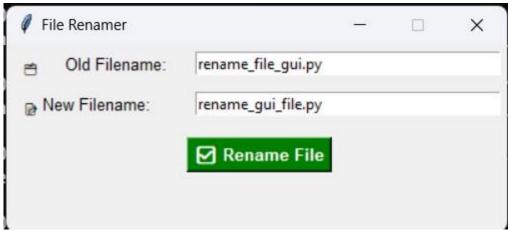
D:\230701304>python rename\_file\_cli.py demo.txt shal.txt File renamed from demo.txt to shal.txt

```
2.GRAPHICAL USER INTERFACE:
PYTHON CODE:
import tkinter as tk from tkinter
import messagebox import os
# Function to rename the file def
rename_file():
  old_name = old_filename_entry.get().strip()
new_name = new_filename_entry.get().strip()
  # Check if input fields are empty
if not old_name or not new_name:
    messagebox.showwarning("Warning", "Please enter both filenames!")
    return
  # Check if the old file exists if
not os.path.exists(old_name):
    messagebox.showerror("Error", f"File '{old_name}' not found.")
    return
  # Check if the new file already exists
if os.path.exists(new_name):
    overwrite = messagebox.askyesno("Warning", f"'{new_name}' already exists. Overwrite?")
    if not overwrite:
      return
 try:
    os.rename(old_name, new_name)
                                          messagebox.showinfo("Success", f"File
renamed from '{old_name}' to '{new_name}'") except Exception as e:
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messagebox.showerror("Error", f"An error occurred: {e}")
```

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# Create main window
root
          =
                  tk.Tk()
root.title("File Renamer")
root.geometry("400x150"
)
root.resizable(False, False) # Fixed window size
# Labels
tk.Label(root, text=" (Arial", 10)).grid(row=0, column=0, padx=10, pady=5,
sticky="w")
tk.Label(root, text="|| New Filename:", font=("Arial", 10)).grid(row=1, column=0, padx=10, pady=5,
sticky="w")
# Entry fields old_filename_entry = tk.Entry(root, width=40)
old_filename_entry.grid(row=0, column=1, padx=10, pady=5)
new_filename_entry = tk.Entry(root, width=40) new_filename_entry.grid(row=1,
column=1, padx=10, pady=5)
# Styled Button
rename_button = tk.Button(root, text=" ✓ Rename File", bg="green", fg="white", font=("Arial", 10,
"bold"), command=rename_file) rename_button.grid(row=2,
column=0, columnspan=2, pady=10)
# Run the GUI event loop
root.mainloop() OUTPUT:
```

## D:\230701304>python rename\_gui.py



## 3.VOICE USER INTERFACE: **PYTHON CODE:** import speech\_recognition as sr import os def rename\_file\_from\_voice\_command(command): try: words = command.lower().split(" ") if "rename" in words and "to" in words: rename\_index = words.index("rename") to\_index = words.index("to") # Extract old and new filenames old\_name = words[rename\_index + 1] new\_name = words[to\_index + 1] # Check if file exists if not os.path.exists(old\_name):

print(f"Error: File '{old\_name}' not found.")

return

```
# Rename file
                                         print(f" / File
     os.rename(old_name, new_name)
renamed from '{old_name}' to '{new_name}'")
else:
     print("Invalid command format. Say: 'Rename oldfile.txt to newfile.txt'")
  except Exception as e:
print(f"Error: {e}")
def listen_for_command():
recognizer = sr.Recognizer()
                         mic
= sr.Microphone()
 print(" Distening 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(" X Sorry, I couldn't understand the command.")
except sr.RequestError as e:
```

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if __name__ == "__main__":
listen_for_command()
D:\230701304>python rename_vui.py
 Listening for command to rename a file...
 Command received: rename
Invalid command format. Say: 'Rename oldfile.txt to newfile.txt'
D:\230701304>python rename_vui.py
  Listening for command to rename a file...
  K Sorry, I couldn't understand the command.
  [Running] python -u "d:\230701304\vui.py"
 Listening for command to rename a file...
 Command received: rename sample to Shark Shal
  File renamed from sample to Shark
4.USER SATISFACTION COMPARISON:
PYTHON CODE:
def survey():
 print("Rate your satisfaction with the following interfaces (1-5):")
 # Get user input for each interface
 try:
   cli satisfaction = int(input("CLI (1-5): "))
gui satisfaction = int(input("GUI (1-5): "))
vui_satisfaction = int(input("VUI (1-5): "))
   # Ensure valid ratings
                        if not (1 <= cli satisfaction <= 5 and 1 <= gui satisfaction <= 5 and
1 <= vui_satisfaction <= 5):
     print("Please enter ratings between 1 and 5 only.")
     return
   # Display the ratings
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print("\nYour satisfaction ratings:")

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print(f"CLI: {cli_satisfaction}")
print(f"GUI: {gui_satisfaction}")
print(f"VUI: {vui_satisfaction}")
    # Calculate the average satisfaction
                                       avg_satisfaction =
(cli_satisfaction + gui_satisfaction + vui_satisfaction) / 3
                                                     print(f"\nAverage
Satisfaction Score: {avg_satisfaction:.2f}")
  except ValueError:
    print("Invalid input! Please enter numbers between 1 and 5.")
# Run the survey function if
__name__ == "__main__":
  survey()
  D:\230701304>python survey.py
  Rate your satisfaction with the following interfaces (1-5):
  CLI (1-5): 4
  GUI (1-5): 5
  VUI (1-5): 3
  Your satisfaction ratings:
  CLI: 4
  GUI: 5
  VUI: 3
  Average Satisfaction Score: 4.00
  D:\230701304>
```