USER INTERFACE DESIGN

EXP.NO:3 DATE:08.02.2025

TASK: To create a simple GUI (Graphical User Interface), VUI (Virtual User Interface), CLI (Command Line Interface) using python with required libraries.

GUI:

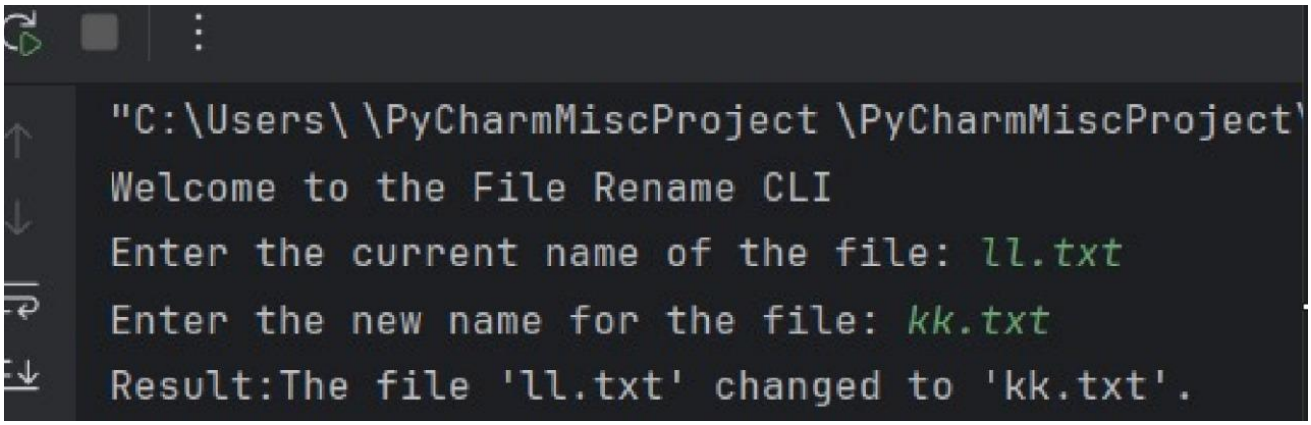
PYTHON CODE:

```
import tkinter as tk from tkinter import ttk
import ttkbootstrap as tb  # Modern UI theme
from PIL import Image, ImageTk  # For icons
def rename_file():
   old_name  =  old_file_entry.get()
new_name  =  new_file_entry.get()
if old_name and new_name:
      status_label.config(text=f'Renamed "{old_name}" to "{new_name}"', foreground="green")
  else:
      status_label.config(text="Please enter both filenames", foreground="red")
root = tb.Window(themename="superhero")  # Stylish theme root.title("File
Renamer") root.geometry("1000x1000") root.resizable(False, False)
root.configure(bg="#D1E8E2")  # Light pastel background

title_label = tk.Label(root, text="File Renamer by 230701246", font=("Arial", 20, "bold"), fg="BLACK",
bg="#4682B4") title_label.pack(fill="x", pady=10)
frame = tk.Frame(root, bg="#D1E8E2", padx=20, pady=20) frame.pack(pady=10) old_file_label =
ttk.Label(frame, text="Old Filename:", font=("Arial", 12, "bold")) old_file_label.grid(row=0, column=0,
```

padx=10, pady=10, sticky="e") old_file_entry = ttk.Entry(frame, width=25, font=("Arial", 12))
old_file_entry.grid(row=0, column=1, padx=10, pady=10) new_file_label = ttk.Label(frame, text="New
Filename:", font=("Arial", 12, "bold")) new_file_label.grid(row=1, column=0, padx=10, pady=10, sticky="e")
new_file_entry = ttk.Entry(frame, width=25, font=("Arial", 12)) new_file_entry.grid(row=1, column=1,
padx=10, pady=10) rename_button = tb.Button(root, text="Rename File", bootstyle="success",
command=rename_file, width=15) rename_button.pack(pady=15) icon_img = Image.open("C:\sem
4\PUP.png").resize((1000, 50)) # Add your own icon.png icon_tk = ImageTk.PhotoImage(icon_img) title_frame
= tk.Frame(root, bg="#4682B4", height=50) title_frame.pack(fill="x") icon_label = tk.Label(title_frame,
image=icon_tk, bg="#4682B4") icon_label.pack(side="left", padx=10, pady=5) status_label = tk.Label(root,
text="", font=("Arial", 10), bg="#D1E8E2") status_label.pack(pady=5) root.mainloop()

OUTPUT:



VUI:

Python code:

import speech_recognition as sr import

os def rename_file(old_name,

new_name):

    try:

        if not os.path.exists(old_name):

            print(f"Error: The file '{old_name}' does not exist.")

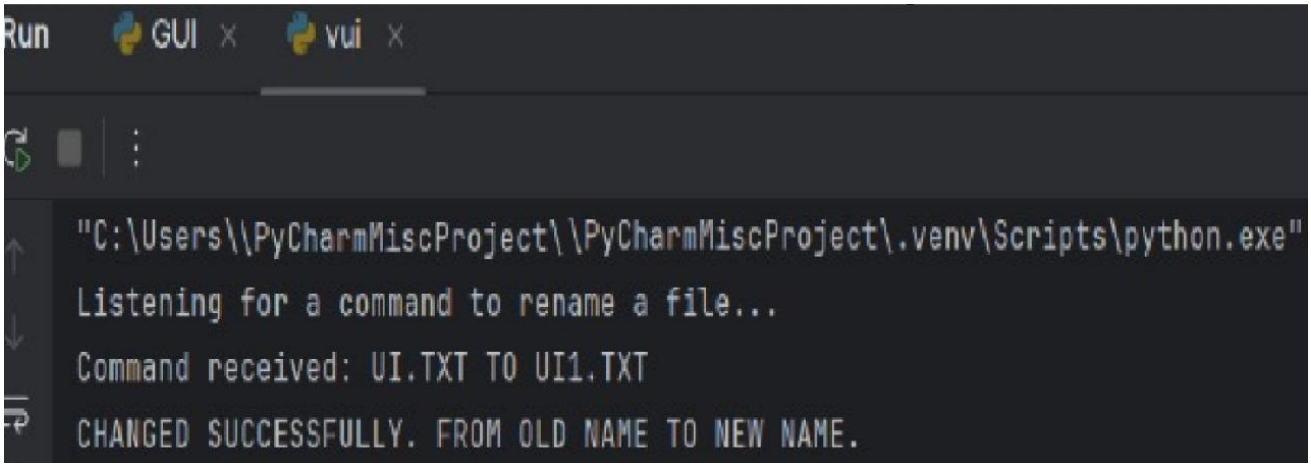
            return

```
    os.rename(old_name, new_name)        print(f"File successfully
renamed from '{old_name}' to '{new_name}'.")     except Exception as e:
    print(f"Error renaming file: {e}")
def parse_voice_command(command):
  try:
    command = command.lower()        if "rename"
in command and "to" in command:            words =
command.split()           old_name_index =
words.index("rename") + 1           new_name_index
= words.index("to") + 1           old_name =
words[old_name_index]           new_name =
words[new_name_index]           return old_name,
new_name
    else:
      print("Invalid command format. Please use: 'Rename <old_name> to <new_name>'.")
return None, None     except Exception as e:        print(f"Error parsing command: {e}")
return None, None

def listen_for_command():     recognizer =
sr.Recognizer()     mic = sr.Microphone()
print("Listening for a command to rename a file...")
with mic as source:
    recognizer.adjust_for_ambient_noise(source)
    try:
      audio = recognizer.listen(source, timeout=20)
except sr.WaitTimeoutError:
      print("Listening timed out. No command detected.")
      return
try:
```

```
        command = recognizer.recognize_google(audio)
print(f"Command received: {command}")        old_name,
new_name = parse_voice_command(command)
        if old_name and new_name:
            rename_file(old_name, new_name)
except sr.UnknownValueError:
        print("Sorry, I couldn't understand the command. Please try again.")
except sr.RequestError as e:
        print(f"Could not connect to Google Speech Recognition service; {e}")
if __name__ == "__main__":    listen_for_command()
```

OUTPUT:



CLI:

Pyhton 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}' successfully.")    except FileNotFoundError:
```

```
        print(f"Result:The file '{old_name}' changed to '{new_name}'.")
except FileExistsError:
        print(f"Result: A file '{new_name}' is changed.")
except Exception as e:
        print(f"An error occurred: {e}")


def main():
    print("Welcome to the File Rename CLI")     old_name =
input("Enter the current name of the file: ")     new_name
=  input("Enter  the  new  name  for  the  file:  ")
rename_file(old_name, new_name)


if _name_ == "_main_":
    main()
```

OUTPUT: