USER INTERFACE DESIGN

EXP.NO:3 DATE:08.02.2025

TASK: To create a simple GUI (GRAPICS USER INTERFACE) , VUI (VOICEUSER INTERFACE) , CLI (COMMNAD LINE INTERFACE) using Python with required libraries.

GUI:

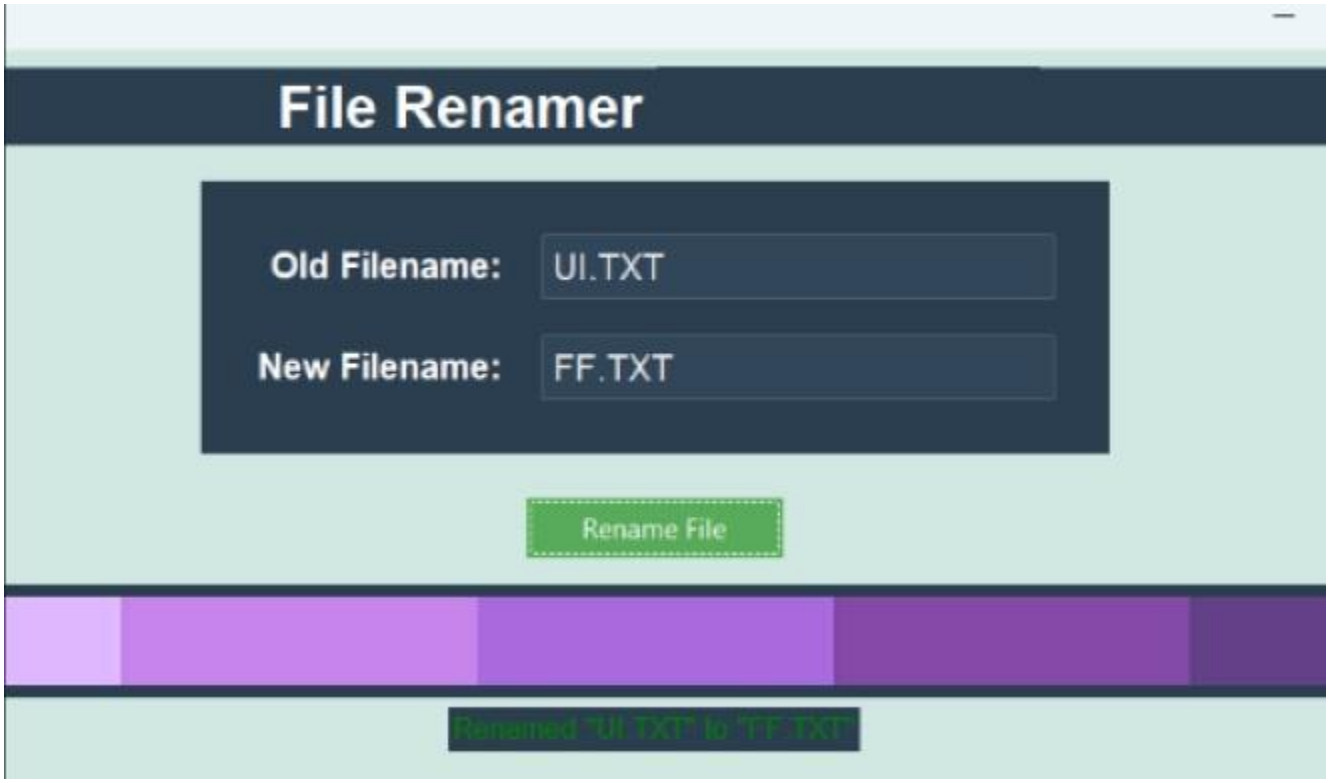
PYTHON CODE:

```
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:

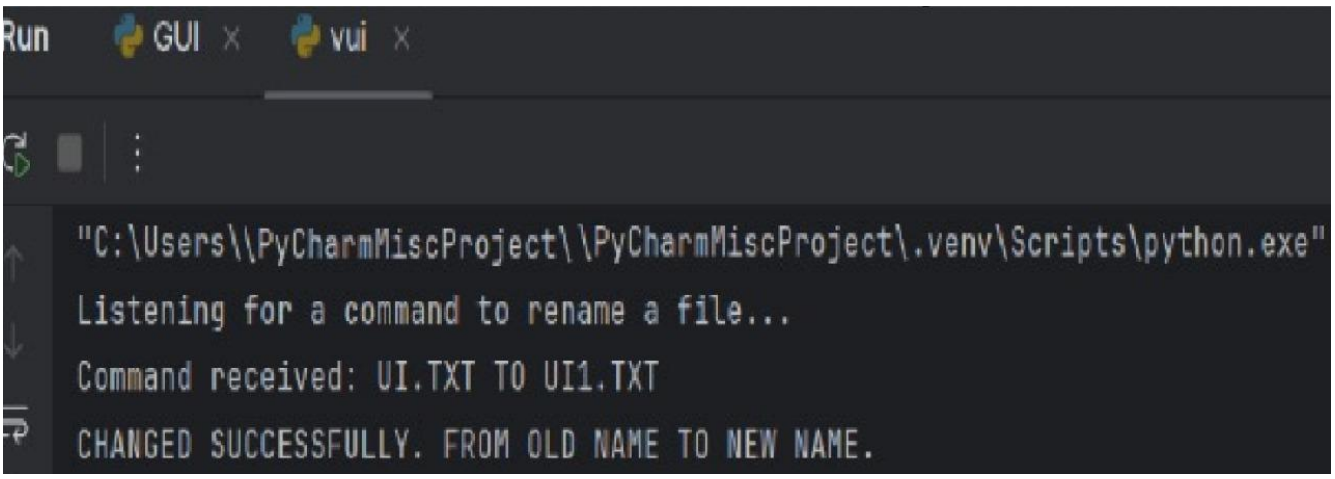
Python code:

```
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:

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}' 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: