

EXPERIMENT-3

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1. COMMAND LINE INTERFACE:

PYTHON CODE:

```
filename = input("Enter file name to create: ")

try:
    with open(filename, "w") as f:
        f.write("This file is created using CLI.")
        print("File created successfully!")
except:
    print("Error creating file")
```

OUTPUT:

```
PS C:\Users\LENOVO\Desktop\UID EXPERIMENT 3> python cli_create_file.py
Enter file name to create: sample.txt
File created successfully!
```

2. GRAPHICAL USER INTERFACE:

PYTHON CODE:

```
import tkinter as tk
from tkinter import messagebox

def create_file():
    filename = entry.get()
    if filename == "":
        messagebox.showwarning("Warning", "Enter file name")
        return

    with open(filename, "w") as f:
        f.write("This file is created using GUI.")

    messagebox.showinfo("Success", "File created successfully!")

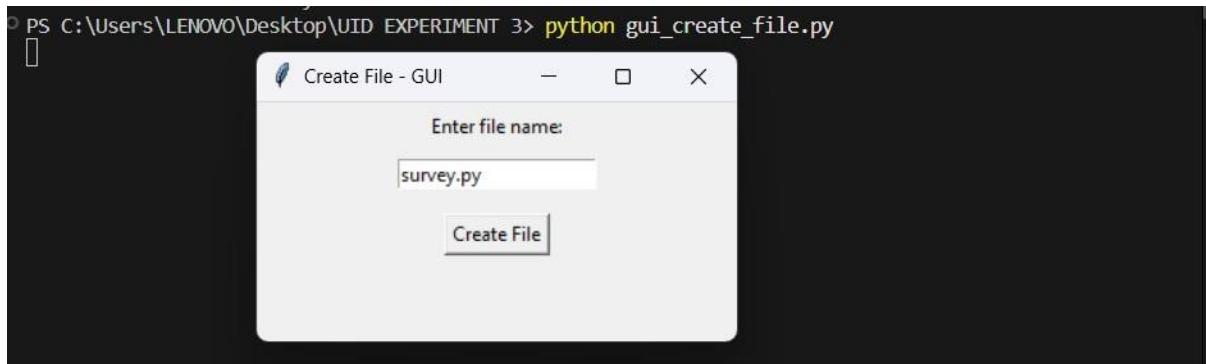
root = tk.Tk()
root.title("Create File - GUI")
root.geometry("300x150")

tk.Label(root, text="Enter file name:").pack(pady=5)
entry = tk.Entry(root)
entry.pack(pady=5)

tk.Button(root, text="Create File", command=create_file).pack(pady=10)

root.mainloop()
```

OUTPUT:



3. VOICE USER INTERFACE:

PYTHON CODE:

```
import speech_recognition as sr

r = sr.Recognizer()

with sr.Microphone() as source:
    print("📝 Say the file name to create")
    audio = r.listen(source)

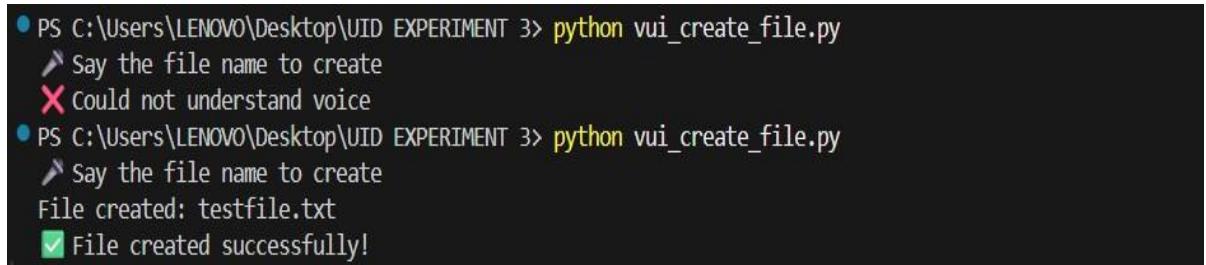
try:
    filename = r.recognize_google(audio)
    filename = filename.replace(" ", "") + ".txt"

    with open(filename, "w") as f:
        f.write("This file is created using Voice Interface.")

    print("File created:", filename)
    print("✅ File created successfully!")

except:
    print("❌ Could not understand voice")
```

OUTPUT:



4. USER SATISFACTION COMPARISON:

PYTHON CODE:

```
print("User Satisfaction Survey (1 to 5)")

cli = int(input("Rate CLI file creation: "))
gui = int(input("Rate GUI file creation: "))
vui = int(input("Rate VUI file creation: "))

avg = (cli + gui + vui) / 3

print("\nResults")
print("CLI:", cli)
print("GUI:", gui)
print("VUI:", vui)
print("Average Satisfaction:", avg)
```

OUTPUT:

```
PS C:\Users\LENOVO\Desktop\UID EXPERIMENT 3> python survey.py
User Satisfaction Survey (1 to 5)
Rate CLI file creation: 4
Rate GUI file creation: 4
Rate VUI file creation: 5

Results
CLI: 4
GUI: 4
VUI: 5
Average Satisfaction: 4.333333333333333
PS C:\Users\LENOVO\Desktop\UID EXPERIMENT 3> 
```