Ex:2 - CLI, GUI AND VUI:

1) CLI:

```
tasks = []
def add_task(task):
 """Adds a task to the list."""
tasks.append(task)
print(f"Task '{task}' added.")
def view tasks():
 """Displays the tasks."""
if tasks:
     print("\nYour tasks:")
     for idx, task in enumerate(tasks, 1):
         print(f"{idx}. {task}")
 else:
     print("\nNo tasks to show.")
def remove_task(task_number):
 """Removes a task by its number."""
 if 0 < task number <= len(tasks):</pre>
     removed task = tasks.pop(task number - 1)
    print(f"Task '{removed_task}' removed.")
else:
    print("Invalid task number.")
def main():
 """Main function to handle user input."""
 while True:
    print("\nOptions: ")
    print("1. Add Task")
     print("2. View Tasks")
    print("3. Remove Task")
    print("4. Exit")
     choice = input("Enter your choice: ")
     if choice == '1':
         task = input("Enter task: ")
         add task(task)
     elif choice == '2':
        view tasks()
     elif choice == '3':
        try:
             task number = int(input("Enter task number to remove: "))
             remove task(task number)
         except ValueError:
             print("Invalid input. Please enter a valid number.")
     elif choice == '4':
        print("Exiting...")
         break
```

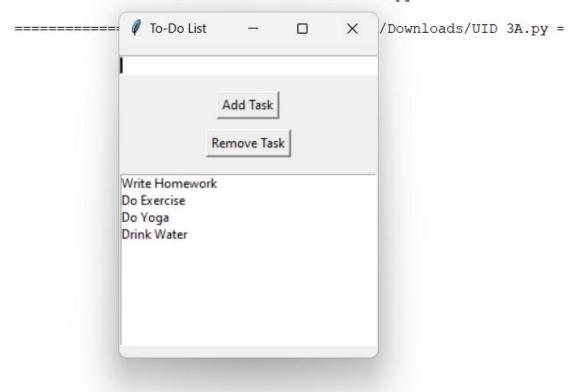
```
----- RESTART. C./ USCIS/A. VCIAII/ DOWNITORAS/ OID SA.PY ------
Options:
1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter your choice: 1
Enter task: Write Homework
Task 'Write Homework' added.
Options:
1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter your choice: 2
Your tasks:
1. Write Homework
Options:
1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter your choice: 3
Enter task number to remove: 1
Task 'Write Homework' removed.
Options:
1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter your choice: 4
Exiting...
```

2) GUI:

```
*UID 3A.py - C:/Users/A.Velan/Downloads/UID 3A.py (3.12.0)*
                                                                          File Edit Format Run Options Window Help
import tkinter as tk
from tkinter import messagebox
tasks = []
def add task():
"""Adds a task to the list."""
task = task_entry.get()
if task:
tasks.append(task)
task entry.delete(0, tk.END)
update_task_list()
else:
messagebox.showwarning("Warning", "Task cannot be empty")
def update task list():
"""Updates the task list display."""
task list.delete(0, tk.END)
for task in tasks:
task list.insert(tk.END, task)
def remove_task():
"""Removes the selected task from the list."""
selected task index = task list.curselection()
if selected task index:
task list.delete(selected task index)
tasks.pop(selected_task_index[0])
messagebox.showwarning("Warning", "Please select a task to remove")
app = tk.Tk()
app.title("To-Do List")
task entry = tk.Entry(app, width=40)
task entry.pack(pady=10)
add button = tk.Button(app, text="Add Task", command=add task)
add button.pack(pady=5)
remove button = tk.Button(app, text="Remove Task", command=remove task)
remove button.pack(pady=5)
task list = tk.Listbox(app, width=40, height=10)
task list.pack(pady=10)
app.mainloop()
```

Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more infor

= RESTART: C:/Users/A.Velan/Downloads/UID 3A.py



3) VUI:

```
import speech recognition as sr
import pyttsx3
tasks = []
recognizer = sr.Recognizer()
engine = pyttsx3.init()
def add task(task):
tasks.append(task)
engine.say(f"Task '{task}' added.")
engine.runAndWait()
def view_tasks():
 if tasks:
     engine.say("Your tasks are:")
     for i, task in enumerate(tasks, start=1):
        engine.say(f"Task {i}: {task}")
     engine.say("No tasks to show.")
     engine.runAndWait()
def remove_task(task_number):
 if 0 < task number <= len(tasks):</pre>
     removed task = tasks.pop(task_number - 1)
     engine.say(f"Task '{removed task}' removed.")
else:
     engine.say("Invalid task number.")
     engine.runAndWait()
def recognize_speech():
 with sr.Microphone() as source:
     print("Listening...")
     audio = recognizer.listen(source)
     try:
         command = recognizer.recognize google(audio)
         return command.lower()
     except sr.UnknownValueError:
         engine.say("Sorry, I did not understand that.")
         engine.runAndWait()
         return None
def main():
 while True:
     engine.say("Options: add task, view tasks, remove task, or exit.")
     engine.runAndWait()
     command = recognize speech()
```