EXPERIMENT - 03

Aim:

The aim is to develop and compare Command Line Interface (CLI), Graphical User Interface (GUI), and Voice User Interface (VUI) for the same task, and assess user satisfaction using Python (with Tkinter for GUI and Speech Recognition for VUI) and Terminal.

Procedure:

1. **CLI (Command Line Interface)**:
- Implement a task management system in the terminal where users can add, view, and remove tasks by typing commands.
- The program allows users to choose from a menu with options for adding, viewing, and removing tasks.

Output:

```
Options: 1. Add Task  2. View Tasks  3. Remove Task  4. Exit
Enter your choice:
1
Enter task:
Do all assignments
Task 'Do all assignments' added.
```

2. **VUI (Voice User Interface)**:
- Use the `speech_recognition` library for voice input and `pyttsx3` for voice output.
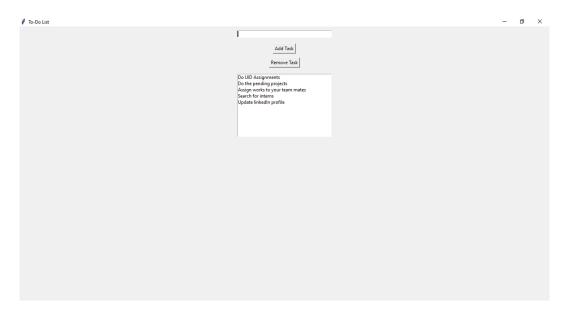- The system listens for voice commands to add, view, or remove tasks, and speaks back the results or errors.

Output:

3. GUI (Graphical User Interface):
- Use Tkinter to create a graphical interface with buttons for adding and removing tasks, and a listbox to display tasks.
- Users interact with the GUI by clicking buttons to add or remove tasks.

Output:

To-Do List

Add Task

Remove Task

Do UID Assignments
Do the pending projects
Assign works to your team mates
Search for interns
Update linkedIn profile

Result:

Thus, the CLI, GUI, and VUI allows users to manage tasks through different interaction methods, with user satisfaction varying based on ease of use, speed, and familiarity with the interface is implemented successfully.