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Sub : python

Assignment-5

case study : Simple to-do list Management system

```
import sys
def display_menu():
    print("\n options:")
    print("1. Add task")
    print("2. Remove task")
    print("3. view task")
    print("4. exit")

def add_task(tasks):
    task = input("enter task:").strip()
    if task and task not in tasks
        tasks.append(task)
        print(f"task'{task}' added successfully!")
    else:
        print("task is either empty or already exists.")
def remove_task(tasks):
    if not tasks:
        print("No tasks to remove")
        return
    view_task(tasks)
    try:
```

```
            task_index = int(input("enter task number
                                to remove:")) - 1

            if 0 <= task_index < len(tasks):
                removed_task = tasks.pop(task_index)
                print(f"task '{removed_task}' removed
                                successfully!")

            else:
                print("Invalid task number.")

        except ValueError:
            print("Please enter a valid number.")

def view_task(tasks):
    if not tasks:
        print("No pending tasks.")
    else:
        print("In pending tasks:")
        for idx, task in enumerate(tasks, start=1):
            print(f"{idx}. {task}")

def main():
    tasks = []
    while true:
        display_menu()
        choice = input("Select an option:")
        if choice == "1":
            add_task(tasks)
        elif choice == "2":
```

```
            remove_task(tasks)
        elif choice == "3":
            view_task(tasks)
        elif choice == "4":
            print("goodbye!")
            sys.exit()
        else:
            print("invalid choice. Please select a
                                valid option.")

if __name__ == "__main__":
    main()
```

output:

```
1. Add task
2. Remove task
3. view tasks
4. exit
select an option: 1
enter task: Sleep
task 'Sleep' added successfully!
1. Add task
2. Remove task
3. view tasks
4. exit
```

Select an option : 2

Pending tasks:

1. Sleep

Enter task number to remove : 2

Invalid task number

options:

1. Add task
2. Remove task
3. View tasks
4. exit

Select an option : 3

Pending tasks:

1. Sleep

options:

1. Add task
2. Remove task
3. View tasks
4. exit

Select an option : 2

Pending tasks:

1. Sleep

Enter task number to remove : 2

task Sleep removed successfully!

options:

1. Add task
2. Remove task
3. View task
4. exit

Select an option : 4

Goodbye!