CodSoft Internship

Task 1: To-Do List Application

Introduction:

This project is based on Python programming. The goal of this project is to create a To-Do List Application using Python, which helps users to manage their daily tasks by adding, viewing, updating, and deleting tasks.

It helps in learning the basic concepts of Python such as lists, loops, functions, and input/output handling.

Code:

```python
todo_list = []


def show_menu():
    print("\n=== To-Do List ===")
    print("1.Add Task")
    print("2.View Task")
    print("3.Delete Task")
    print("4.Update Task")
    print("5.Exit")


def add_task():
    task = input("Enter a new task:")
    todo_list.append(task)
    print(f"Task'{task}'has been added!")


def view_tasks():
    if not todo_list:
```

```python
        print("No tasks available right now!")
    else:
        print("\nYour To-do List:")
        for i,task in enumerate(todo_list,1):
                    print(f"{i}.{task}")


def delete_task():
    view_tasks()
    if todo_list:
        try:
            index = int(input("Which Task do you want to deleted?(Enter the number):")) - 1
            if 0 <= index < len(todo_list):
                removed_task = todo_list.pop(index)
                print(f"Task '{removed_task}'has been deleted!")
            else:
                print("Invalid Number Entered!")
        except ValueError:
            print("Please Enter a number, nothing else!")
def update_task():
    view_tasks()
    if todo_list:
        try:
            index = int(input("Which Task do you want to update?(Enter The number):")) - 1
            if 0 <= index < len(todo_list):
                new_task = input("Enter The Nwe task: ")
                old_task = todo_list[index]
                todo_list[index] = new_task
                print(f"Task '{old_task}' has been updated to '{new_task}'!")
            else:
                print("Invalid number entered!")
        except ValueError:
            print("Please Enter a number, nothing else!")




while True:
```

```
show_menu()
choice = input("What do you want to do? (1-5): ")
if choice == '1':
        add_task()
elif choice == '2':
    view_tasks()
elif choice == '3':
    delete_task()
elif choice == '4':
    update_task()
elif choice == '5':
    print("Goodbye! To-Do List closed!")
    break
else:
    print("please enter a number between 1 and 5!")
```

Output:

1 Add Task
2 View Task
3 Delete Task
4 Update Task
5 Exit
Choose an option:1
Enter The Task: Buy Milk
Task Added: Buy Milk
Choose an option (1-5):5
Good bye To-Do List closed.

Conclusion:

This To-Do List Application in Python helped me understand basic concepts like list manipulation, loops, functions, and user input. It gave me practical experience in developing a simple, interactive command-line application.