

# MINI PROJECT

**Develop a basic to-do list application using functions and data structures**

**SOURCE CODE:**

```
tasks = []

def add_task(task):
    tasks.append({"task": task, "completed": False})
    print(f"Task '{task}' added.")

def delete_task(task_index):
    if task_index < 0 or task_index >= len(tasks):
        print("Invalid task index.")
    else:
        del tasks[task_index]
        print("Task deleted.")

def display_tasks():
    if not tasks:
        print("No tasks.")
    else:
        print("Task List:")
        for index, task in enumerate(tasks):
            status = "✓" if task["completed"] else " "
            print(f"{index + 1}. [{status}] {task['task']}")

def complete_task(task_index):
    if task_index < 0 or task_index >= len(tasks):
        print("Invalid task index.")
    else:
        tasks[task_index]["completed"] = True
        print("Task marked as complete.")

def main():
    while True:
        print("\n===== To-Do List Menu =====")
        print("1. Add Task")
        print("2. Delete Task")
        print("3. Display Tasks")
        print("4. Mark Task as Complete")
        print("5. Exit")

        choice = input("Enter your choice (1-5): ")

        if choice == '1':
```

```

        task = input("Enter task to add: ")
        add_task(task)
    elif choice == '2':
        if tasks:
            display_tasks()
            task_index = int(input("Enter task number to delete: ")) - 1
            delete_task(task_index)
        else:
            print("No tasks to delete.")
    elif choice == '3':
        display_tasks()
    elif choice == '4':
        if tasks:
            display_tasks()
            task_index = int(input("Enter task number to mark as complete: ")) -
1            complete_task(task_index)
        else:
            print("No tasks to mark as complete.")
    elif choice == '5':
        print("Exiting program.")
        break
    else:
        print("Invalid choice. Please enter a number from 1 to 5.")

if __name__ == "__main__":
    main()

```

## OUTPUT:

```
= RESTART: C:/Users/HP/Desktop/B.Tech/ValutOfCodes/python(internship)/to_do.py =
```

```
===== To-Do List Menu =====
```

```
1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit
Enter your choice (1-5): 1
Enter task to add: Buy groceries
Task 'Buy groceries' added.
```

```
===== To-Do List Menu =====
```

```
1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit
Enter your choice (1-5): 1
Enter task to add: finish work
Task 'finish work' added.
```

```
===== To-Do List Menu =====
```

```
1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit
Enter your choice (1-5): 3
Task List:
1. [ ] Buy groceries
2. [ ] finish work
```

===== To-Do List Menu =====

1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit

Enter your choice (1-5): 4

Task List:

1. ☐ Buy groceries
2. ☐ finish work

Enter task number to mark as complete: 1

Task marked as complete.

===== To-Do List Menu =====

1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit

Enter your choice (1-5): 3

Task List:

1. ☒ Buy groceries
2. ☐ finish work

===== To-Do List Menu =====

1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit

Enter your choice (1-5): 2

Task List:

1. ☒ Buy groceries
2. ☐ finish work

Enter task number to delete: 2

Task deleted.

===== To-Do List Menu =====

1. Add Task
2. Delete Task
3. Display Tasks
4. Mark Task as Complete
5. Exit

Enter your choice (1-5): 3

Task List:

1. ☒ Buy groceries