

# CODSOFT IT SERVICE

## PYTHON PROGRAMMING INTERNSHIP

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# **TASK 1: TO-DO LIST**

```
from datetime import datetime

class Task:
    def __init__(self, title):
        self.title = title
        self.completed = False
        self.created_at = datetime.now()

    def mark_done(self):
        self.completed = True

class TodoApp:
    def __init__(self):
        self.tasks = []

    def add_task(self):
        title = input("Enter task: ")
        self.tasks.append(Task(title))
        print(f"✓ '{title}' added successfully!")

    def view_tasks(self):
        if not self.tasks:
            print("No tasks found.")
            return

        print("\n--- Your Tasks ---")
        for i, task in enumerate(self.tasks, 1):
            status = "✓ Done" if task.completed else "✗ Pending"
            print(f"{i}. {task.title} | {status} | Added: {task.created_at.strftime('%d-%m %I:%M %p')}")

    def mark_done(self):
        self.view_tasks()
```

```
def mark_done(self):  
    self.view_tasks()  
    num = int(input("Task number to mark done: "))  
    self.tasks[num - 1].mark_done()  
    print("Task marked as done!")  
  
def delete_task(self):  
    self.view_tasks()  
    num = int(input("Task number to delete: "))  
    deleted = self.tasks.pop(num - 1)  
    print(f"Deleted task: {deleted.title}")  
  
def run(self):  
    while True:  
        print("\n===== TO-DO LIST APP =====")  
        print("1. Add Task")  
        print("2. View Tasks")  
        print("3. Mark Task as Done")  
        print("4. Delete Task")  
        print("5. Exit")  
        print("=====")  
        choice = input("Enter choice: ")  
        if choice == '1': self.add_task()  
        elif choice == '2': self.view_tasks()  
        elif choice == '3': self.mark_done()  
        elif choice == '4': self.delete_task()  
        elif choice == '5':
```

```
self.view_tasks()

num = int(input("Task number to delete: "))

deleted = self.tasks.pop(num - 1)

print(f"Deleted task: {deleted.title}")

def run(self):

    while True:

        print("\n===== TO-DO LIST APP =====")

        print("1. Add Task")

        print("2. View Tasks")

        print("3. Mark Task as Done")

        print("4. Delete Task")

        print("5. Exit")

        print("===== ")

        choice = input("Enter choice: ")

        if choice == '1': self.add_task()

        elif choice == '2': self.view_tasks()

        elif choice == '3': self.mark_done()

        elif choice == '4': self.delete_task()

        elif choice == '5':

            print("Goodbye! 🖐")

            break

        else:

            print("Invalid choice. Try again.")

TodoApp().run()
```

Python 3.13.7 (tags/v3.13.7:bce61c3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (AMD64)] on win32

Enter "help" below or click "Help" above for more information.

&gt;&gt;&gt;

===== RESTART: C:/Users/aksha/OneDrive/codsoft Internship tasks/task1.py =====

===== TO-DO LIST APP =====

1. Add Task
2. View Tasks
3. Mark Task as Done
4. Delete Task
5. Exit

=====

Enter choice: 1

Enter task: buy groceries

✓ 'buy groceries' added successfully!

===== TO-DO LIST APP =====

1. Add Task
2. View Tasks
3. Mark Task as Done
4. Delete Task
5. Exit

=====

Enter choice: 1

Enter task: do homework

```
=====
```

**Enter choice: 1**

**Enter task: do homework**

**✓ 'do homework' added successfully!**

```
===== TO-DO LIST APP =====
```

**1. Add Task**

**2. View Tasks**

**3. Mark Task as Done**

**4. Delete Task**

**5. Exit**

```
=====
```

**Enter choice: 2**

**--- Your Tasks ---**

**1. buy groceries | X Pending | Added: 11-12 11:17 AM**

**2. do homework | X Pending | Added: 11-12 11:18 AM**

```
===== TO-DO LIST APP =====
```

**1. Add Task**

**2. View Tasks**

**3. Mark Task as Done**

**4. Delete Task**

**5. Exit**

```
=====
```

Enter choice: 3

--- Your Tasks ---

1. buy groceries | X Pending | Added: 11-12 11:17 AM
2. do homework | X Pending | Added: 11-12 11:18 AM

Task number to mark done: 2

Task marked as done!

===== TO-DO LIST APP =====

1. Add Task
  2. View Tasks
  3. Mark Task as Done
  4. Delete Task
  5. Exit
- =====

Enter choice: 2

--- Your Tasks ---

1. buy groceries | X Pending | Added: 11-12 11:17 AM
2. do homework | ✓ Done | Added: 11-12 11:18 AM

===== TO-DO LIST APP =====

1. Add Task
2. View Tasks
3. Mark Task as Done

## ===== TO-DO LIST APP =====

1. Add Task
  2. View Tasks
  3. Mark Task as Done
  4. Delete Task
  5. Exit
- 

Enter choice: 4

--- Your Tasks ---

1. buy groceries | X Pending | Added: 11-12 11:17 AM
2. do homework | ✓ Done | Added: 11-12 11:18 AM

Task number to delete: 1

Deleted task: buy groceries

## ===== TO-DO LIST APP =====

1. Add Task
  2. View Tasks
  3. Mark Task as Done
  4. Delete Task
  5. Exit
- 

Enter choice: 2

--- Your Tasks ---

Task number to delete: 1

Deleted task: buy groceries

===== TO-DO LIST APP =====

1. Add Task
2. View Tasks
3. Mark Task as Done
4. Delete Task
5. Exit

=====

Enter choice: 2

--- Your Tasks ---

1. do homework | ✓ Done | Added: 11-12 11:18 AM

===== TO-DO LIST APP =====

1. Add Task
2. View Tasks
3. Mark Task as Done
4. Delete Task
5. Exit

=====

Enter choice: 5

Goodbye! ↪