



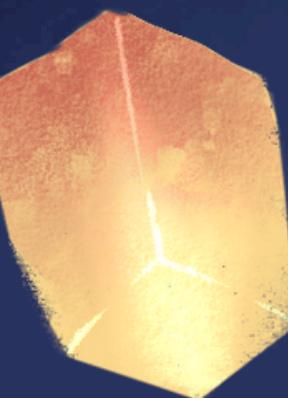
# Decoders presents





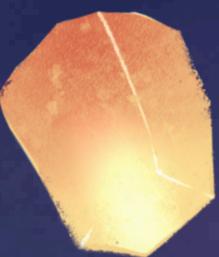
## Decoders[E1]

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# Problem Statement :

To-Do List Application



# Introduction

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The To-Do List Application is a simple command-line tool designed to help users manage their tasks efficiently. This application enables users to add tasks, view their current list of tasks, and delete completed or unnecessary tasks.

## Packages used in this program :

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- sys : used for handling basic program exit functionality  
(via break in loop)
- Core features: Input/Output, string manipulation, and basic list operations

## Program Code :

```
import os  
  
# File to store tasks  
TASK_FILE = "tasks.txt"
```



```
def load_tasks():

    """Load tasks from a file."""

    tasks = []

    if os.path.exists(TASK_FILE):

        with open(TASK_FILE, "r") as file:

            tasks = [line.strip() for line in file.readlines()]

    return tasks
```

```
def save_tasks(tasks):  
    """Save tasks to a file."""  
    with open(TASK_FILE, "w") as file:  
        for task in tasks:  
            file.write(f'{task}\n')
```

```
def add_task(tasks):  
    """Add a new task to the list."""  
    task = input("Enter the task description: ")  
    tasks.append(task)  
    print(f"Task '{task}' added.")
```

```
def view_tasks(tasks):
    """Display all tasks with their statuses."""
    if not tasks:
        print("No tasks available.")
    else:
        for index, task in enumerate(tasks, start=1):
            print(f'{index}. {task}')
```

```
def mark_task_complete(tasks):
    """Mark a task as completed."""
    view_tasks(tasks)
    try:
        task_number = int(input("Enter the task number to mark as complete: "))
        tasks[task_number - 1] = "[Completed] " + tasks[task_number - 1]
        print(f"Task {task_number} marked as complete.")
    except (ValueError, IndexError):
        print("Invalid task number.")
```

```
def delete_task(tasks):
    """Delete a task from the list."""

    view_tasks(tasks)

    try:

        task_number = int(input("Enter the task number to delete: "))

        task = tasks.pop(task_number - 1)

        print(f"Task '{task}' deleted.")

    except (ValueError, IndexError):

        print("Invalid task number.")
```

```
def main():
```

```
    """Main function to run the To-Do List app."""
```

```
    tasks = load_tasks()
```

```
while True:  
  
    print("\nTo-Do List App")  
    print("1. View Tasks")  
    print("2. Add Task")  
    print("3. Mark Task as Completed")  
    print("4. Delete Task")  
    print("5. Exit")  
  
    choice = input("Choose an option (1-5): ")
```

```
if choice == "1":  
    view_tasks(tasks)  
elif choice == "2":  
    add_task(tasks)  
    save_tasks(tasks)  
elif choice == "3":  
    mark_task_complete(tasks)  
    save_tasks(tasks)  
elif choice == "4":  
    delete_task(tasks)  
    save_tasks(tasks)  
elif choice == "5":  
    print("Exiting the app. Goodbye!")  
    break  
else:  
    print("Invalid choice. Please try again.")  
  
if __name__ == "__main__":  
    main()
```





## Program output :

- Viewing Tasks

```
To-Do List App
1. View Tasks
2. Add Task
3. Mark Task as Completed
4. Delete Task
5. Exit
Choose an option (1-5): 1
1. Gaming
```

## • Adding Tasks

```
To-Do List App
→ 1. View Tasks
  2. Add Task
  3. Mark Task as Completed
  4. Delete Task
  5. Exit
Choose an option (1-5): 2
Enter the task description: Gaming
Task 'Gaming ' added.
```

# ● Marking tasks as completed :

```
● To-Do List App
    1. View Tasks
    2. Add Task
    3. Mark Task as Completed
    4. Delete Task
    5. Exit
Choose an option (1-5): 3
    1. Gaming
Enter the task number to mark as complete: 1
Task 1 marked as complete.
```

- Deleting Tasks



To-Do List App



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

Choose an option (1-5): 4

1. [Completed] Gaming

Enter the task number to delete: 1

Task '[Completed] Gaming' deleted.



- Exiting Tasks

```
→ To-Do List App
  1. View Tasks
  2. Add Task
  3. Mark Task as Completed
  4. Delete Task
  5. Exit
Choose an option (1-5): 5
Exiting the app. Goodbye!
```

- viewing task after deleted



```
To-Do List App
1. View Tasks
2. Add Task
3. Mark Task as Completed
4. Delete Task
5. Exit
Choose an option (1-5): 1
No tasks available.
```



# *Conclusion*

The To-Do List Application is a simple yet effective tool for managing daily tasks. Through its intuitive command-line interface, users can easily add, view, and delete tasks, making it a practical solution for staying organized and productive.



A man in a blue jacket stands in a traditional Chinese landscape at night, looking up at glowing lanterns. The scene includes stylized clouds, birds, and building silhouettes. The text "Thank You." is overlaid in white script.

Thank You.