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 **Exercise 5: Task Management System**

Scenario:

You are developing a task management system where tasks need to be added, deleted, and traversed efficiently.

Steps:

1. Understand Linked Lists:

o Explain the different types of linked lists (Singly Linked List, Doubly Linked List).

2. Setup:

o Create a class Task with attributes like taskId, taskName, and status.

3. Implementation:

o Implement a singly linked list to manage tasks.

o Implement methods to add, search, traverse, and delete tasks in the linked list.

4. Analysis:

o Analyze the time complexity of each operation.

o Discuss the advantages of linked lists over arrays for dynamic data.  
