

<u>MID LAB</u> Subject: <u>SDA</u>



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Class: BSE 5A:

Submitted to: Sir Mukhtiar Zamin:

Date:21/05/2025:

Selected Use Case:

"Mark Item as Completed"

Use Case Description:

The user selects an existing task from their TODO list and marks it as completed.

Applied Design Principle:

Single Responsibility Principle (SRP)

Each class or module should have one responsibility. like;

Task manager handle data updates only.

UI controller handles screen updates.

Reminder service (if used) can cancel reminders for completed tasks

2. Design pattern used.

Observer Pattern

Why?

- When the task status changes, the UI and any other components (e.g., a statistics panel) should update automatically.
- The Task object (Subject) notifies observers (UI components) when it changes.

USECASE.

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