# Lab 2: Memory Block Copy with Verification & Interrupt-Based LED Blinking

**Using the 8085 simulator, complete the following labs.**

## a. Memory Block Copy with Verification

***Objective:***

Write an 8085 program to:

1. *Copy 10 bytes of data from one memory block to another.*
2. *After copying, verify that each byte in the destination exactly matches the source.*
3. *If all bytes match, store `FFH` at address `C070`; otherwise, store `00H`.*

***Deliverables:***

1. Assembly code to simulate this lab.
2. Explain the program flow and logic.
3. Describe a different logic of completing the same lab.

## b. Interrupt-Based LED Blinking (Simulated I/O)

***Objective:***

1. Simulate blinking an LED using a software interrupt (e.g., RST 7.5).
2. The "LED" is represented by toggling a bit in a memory-mapped I/O location.

***Deliverables:***

1. Assembly code to simulate this lab.

1. Describe the logic.
2. Outline any assumptions made in the lab.