CSE341: Microprocessors
Lab Quiz - 2, Fall 2025
Total Marks: 5
Time: 25+ 5 minutes

Question-01

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You are to write a program that takes **two Uppercase Letters** as input and shows their **Positional Distance (two digit) as output**. Must follow the sample input output prompts. [Here the second alphabet always comes after the first alphabet in alphabetical order]

Sample I/O: 1	**Sample I/O: 2**
First Alphabet: **A** Second Alphabet: **D** Positional Distance: **03** **Explanation:** A is 1st Alphabet and D is 4th Alphabet. Positional Distance = 4-1 = 03	First Alphabet: **F** Second Alphabet: **S** Positional Distance: **13** Explanation: F is 6th Alphabet and S is 19th Alphabet. Positional Distance = 19-6 = 13

Question-02

You are in the university exam hall, and the digital clock on the wall shows the time in HH format (24-hour format). You want to calculate the **time difference** between two given times to see how much exam time is left. Your task is to write an assembly language program that: Takes **two 2-digit time inputs** from the user (end time and current time in HH format). Computes the remaining time (1-digit) until the exam ends. **Displays the result in the format: "Study Time Left: X hours".**

Sample I/O: 1	**Sample I/O: 2**
Sample Input: 1209 **Sample Output**: Exam Time Left: 3 hours Explanation:: End time = 12, Current time = 09 End - current = 3	**Sample Input**: 1311 **Sample Output**: Exam Time Left: 2 hours

Submission Form	https://forms.gle/2ygauSQCEoowww6JA
Lab Template	Assembly Template.docx
Naming Format	LQ2_05_StudentID