Alexandria University
Faculty of Engineering

Computer Organization
Fall 2023
Assigned: 23/12/2023
Due:  30/12/2023

**Lab 4**

# Development Environment

In this lab, you can use the following assembler
https://emu8086-microprocessor-emulator.en.softonic.com/download

# Question 1

Write a program that sums six elements (bytes), stored in memory but ignores those that are 80 hex or above (≥ 80h) OR 20 hex or below (≤ 20h). Program should stop after 6 comparisons even if numbers were added or not.

# Question 2

Delete the repetitions of characters from a string in-place, e.g "aaabbbccaaabc" should be "abc".
HINT: Use SCASB and MOVSB