

## CSE2037 Lab - 4, Section A

### Task:

- a) Sixteen characters are saved in memory starting from 0x20000040.
- b) The content will be as follows.  
0x0F, 0x1F, 0x2F, 0x3F, 0x4F, 0x5F, ...
- a) First of all, fill the remaining memory content as you like.
- c) Form an assembly code to find their average by reaching the memory content. Do not forget to use branching instructions during operations.
- d) If the average is above 0xFFF, fill the memory address 0x20000030 with 0xFFFFFFFF. Otherwise, fill the same address with 0xF0F0F0F0.

**Note: We provide the document early. Hence, the students can solve the problem before the lab. This does not mean that they can cheat. Therefore, the student understands that “honor system is observed” while preparing the lab solutions. He or she will sign the returned lab sheet by writing the below phrase.**

*“Honor system is observed while preparing this solution. I did not get help from anybody beside my lab partner. I did not help anybody beside my lab partner. I did not allow anybody to violate the honor system.”*

*Date / Signature of the Student*