Lab 3 & 4

# General Purpose Registers - 8086 Microcontroller

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Using emu8086, calculate the answer for the following expression:

(24²)10+710-3310

Restriction: Only use of **AX** is allowed

1. Using emu8086, take the cube of (3)10
2. Using emu8086, calculate the answer for the following expression:

(11⁴)10+710-(2\*3+4)10+3310

1. Using emu8086, initialize two registers (**AL** and **BL**) and apply any arithmetic operation in such a manner that the result appears in both **AH** and **AL**
2. Using emu8086, initialize two registers (**AX** and **BX**) in such a manner that there products yields **DL = 01**
3. What is the maximum achievable product in 8086 microcontroller? Proof your calculated answer using emu8086
4. Using emu8086, initialize two registers (**AX** and **BX**) in such a manner that there division yields **DL = 0A**

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Deadline: 13th Feb, 2019 11:55 PM