# **OC EXPERIMENT LAB 4**

**TITLE**: Writing assembly language programs

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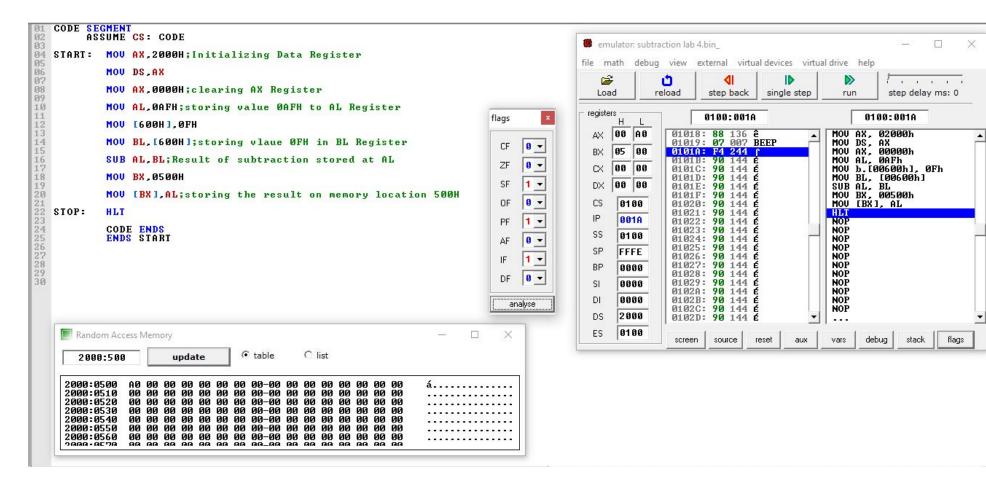
**ROLL NO:** S20200010234

**OBSERVATION**: In this lab I learnt how to write 8086 assembly language programs of doing basic arithmetic and logical operations on two numbers using different addressing modes.

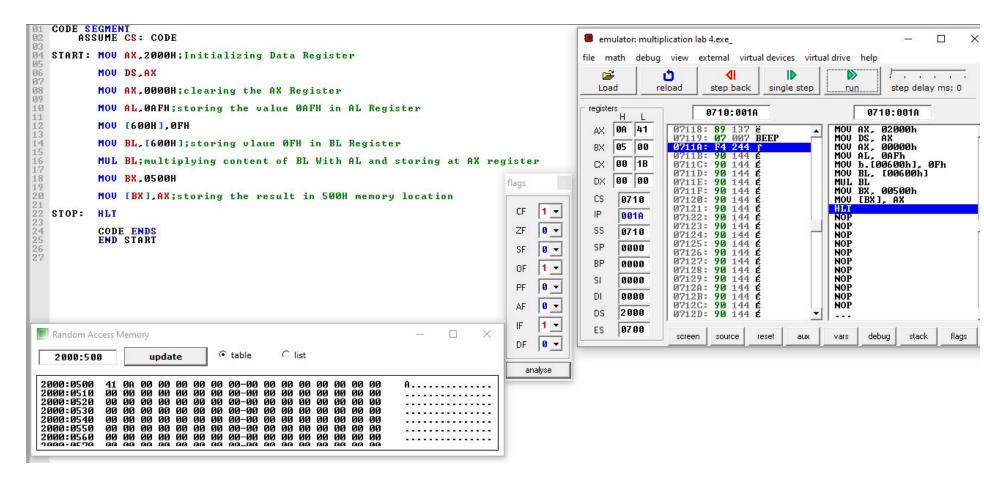
# **QUESTION:-**

Write assembly language program to perform the following operations (given A=AFH and B=0FH)

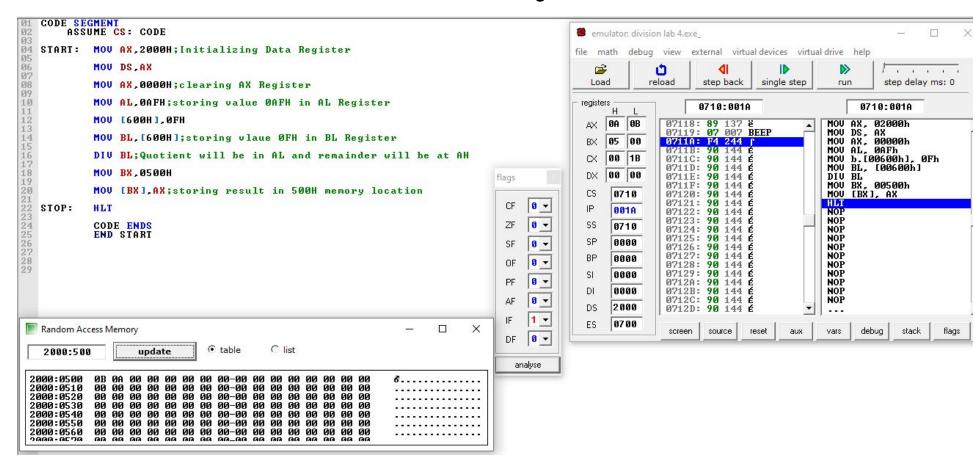
#### 1. Subtract A-B and check the CF, AC, PF and SF flags



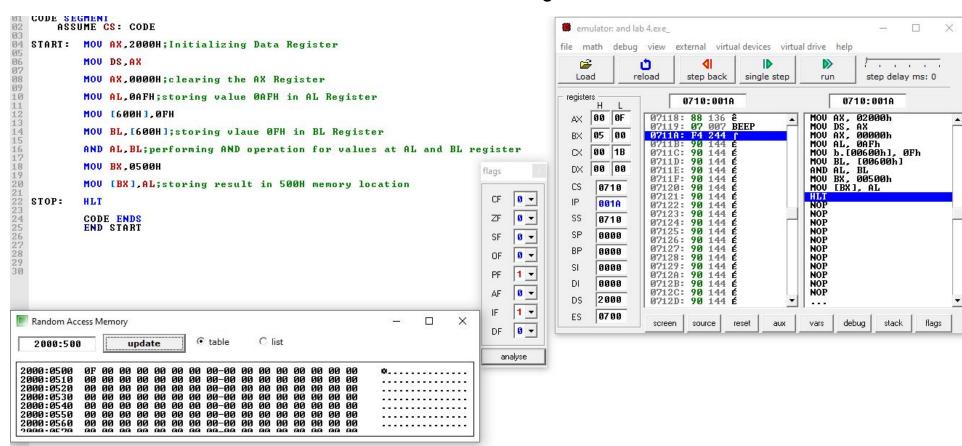
#### 2. Multiplication A\*B and check the CF, AC, PF and SF flags



#### 3. Division A/B and check the CF, AC, PF and SF flags



## 4. AND A with B and check the CF, AC, PF and SF flags



## 5. Average A and B i.e. (A+B)/2 and check the CF, AC, PF and SF flags

