



THE UNIVERSITY  
OF LAHORE  
**ISLAMABAD  
CAMPUS**

## **Data Structure and Algorithms**

### **Lab Report**

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Lab Report #: 04  
Dated: 16-04-2018  
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# Experiment # 1

## ASSEMBLY LANGUAGE Code

### Objective

The objectives of this lab session are to understand the basic and various operations on Memory operations in Assembly Language.

### Software Tool

1. Emu8086

## 1 Code

```
org 100h

MOV AX, 0B800h
MOV DS, AX
MOV CH, 'A'
MOV CH, 01011111b
MOV BX, 15Eh
MOV [BX], CX
ret \\ \\
```

### Outputs:

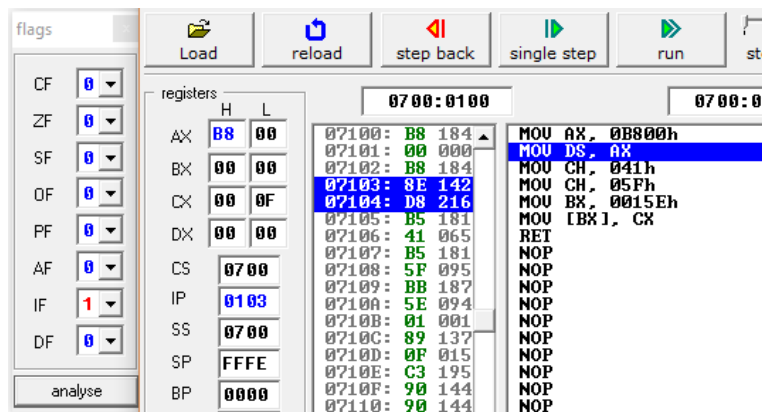


Figure : 1 (After 1st Execution)

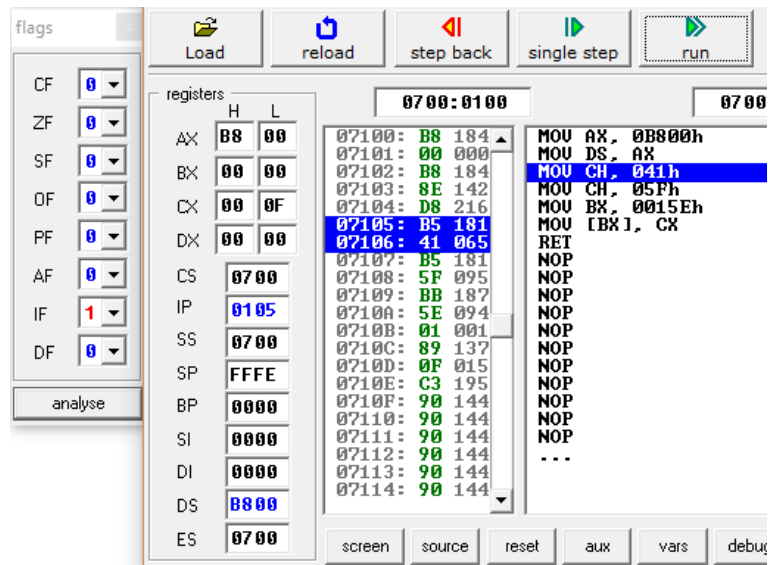


Figure : 1 (After 2nd Execution)

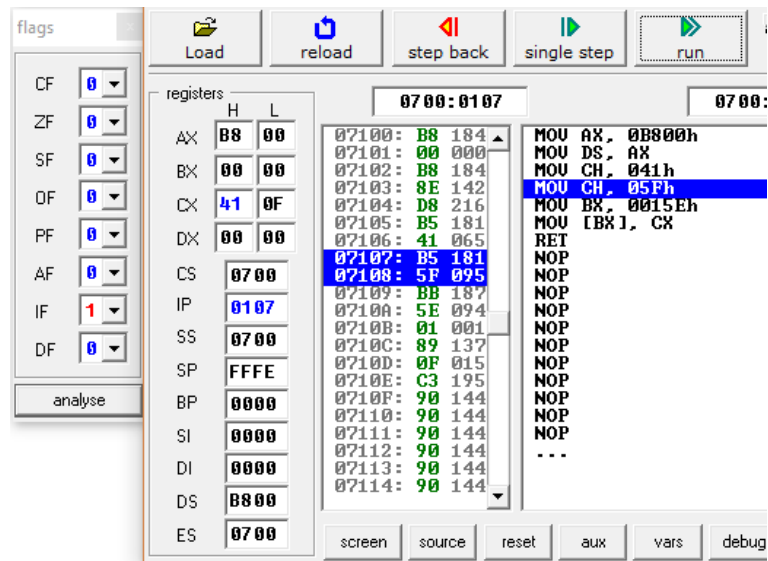


Figure : 1 (After 3rd Execution)

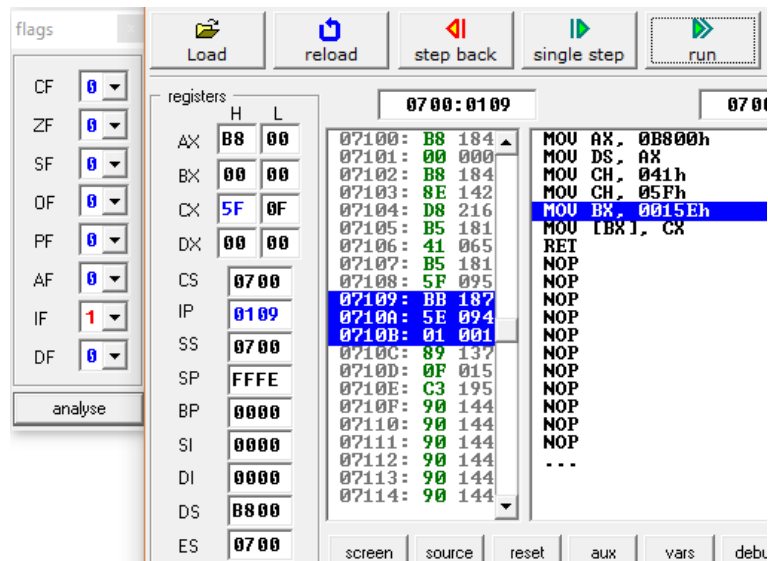


Figure : 1 (After 4th Execution)

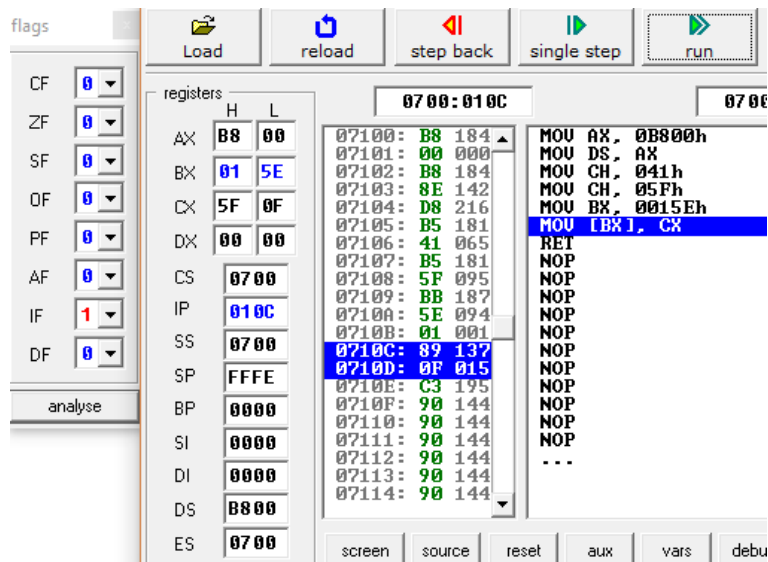


Figure : 1 (After 5th Execution)

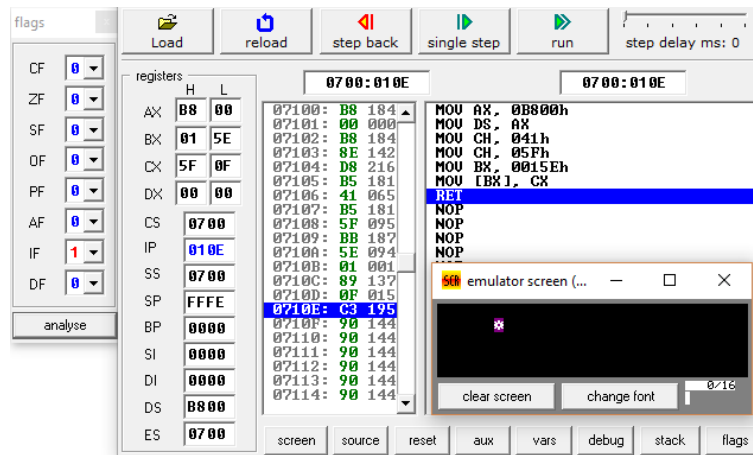


Figure : 1 (After 6th Execution)