# Data Structure and Algorithms

# Lab Report

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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  Al,  a[0]
Mov  Ah,  a[1]
Mov  Bl,  a[2]
Mov  Bh,  a[3]
Mov  Cl,  a[4]
Mov  Ch,  a[5]
Mov  Dl,  a[6]
Mov  Dh,  a[7]

a DB 8 dup (1,2)
ret \\  \\
```
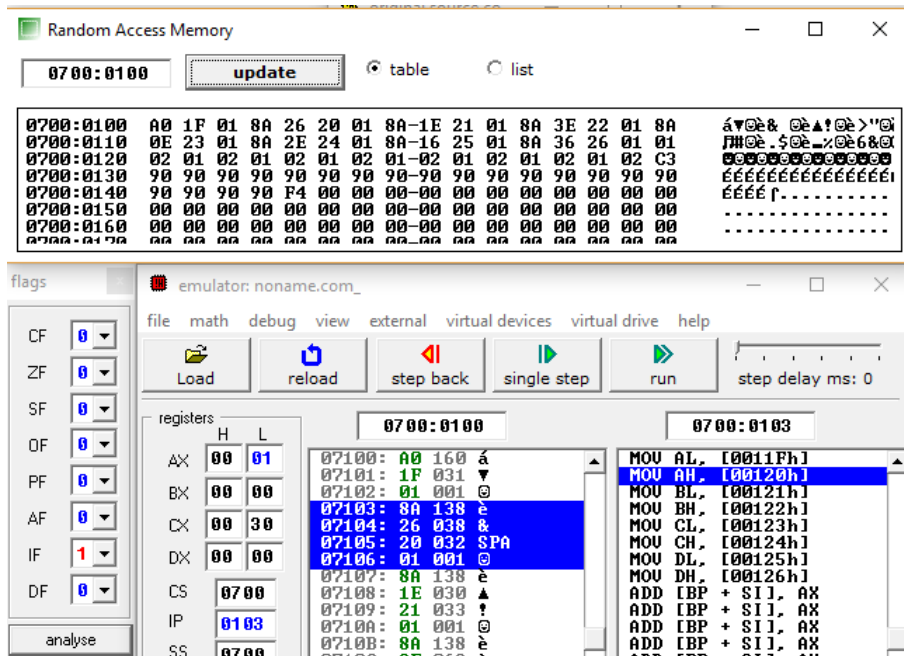
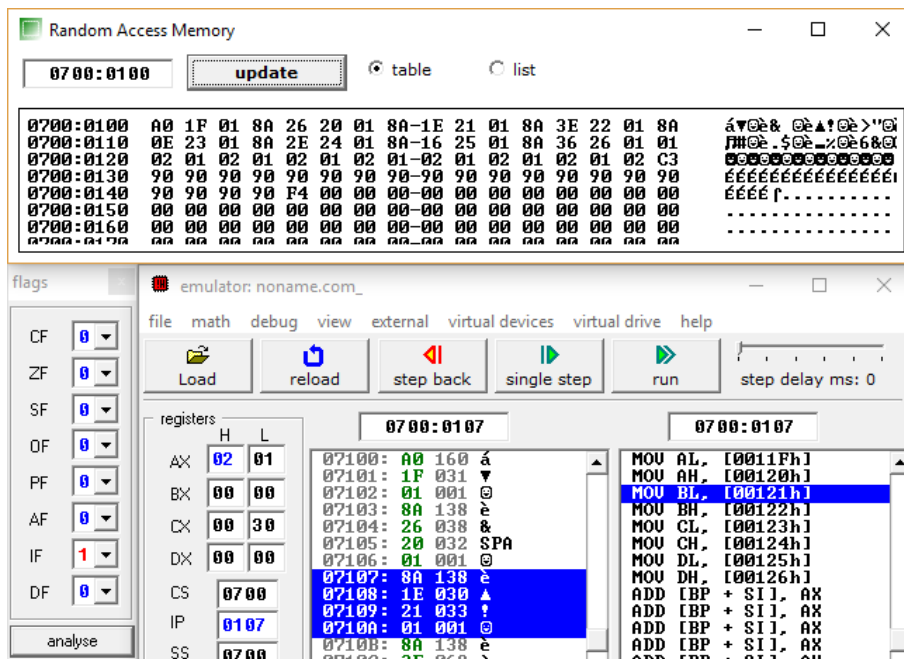**Outputs:**

**Figure : 1 (After 1st Execution)**
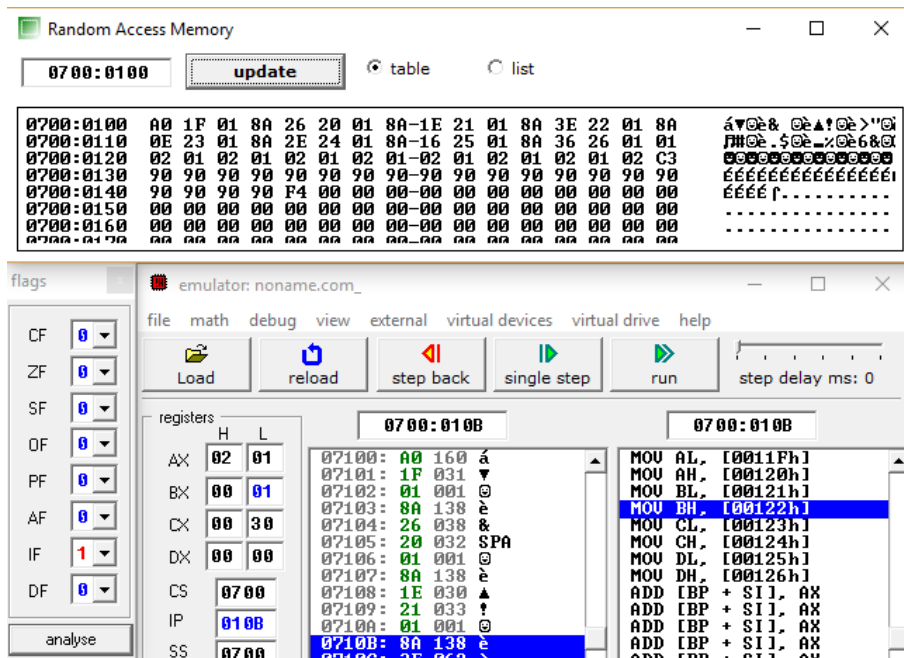


**Figure : 2(After 2nd Execution)**

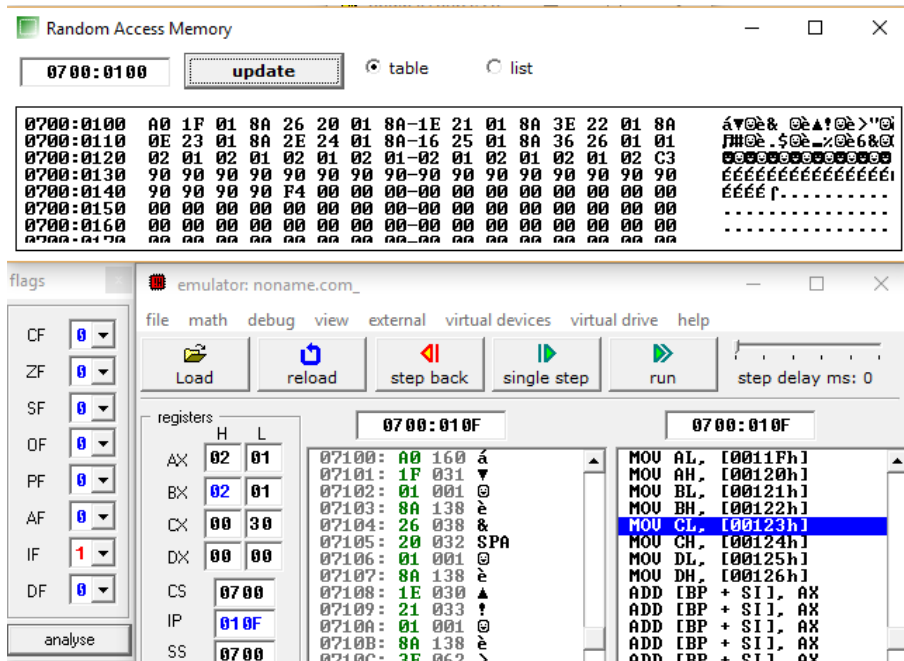**Figure : 3(After 3rd Execution)**
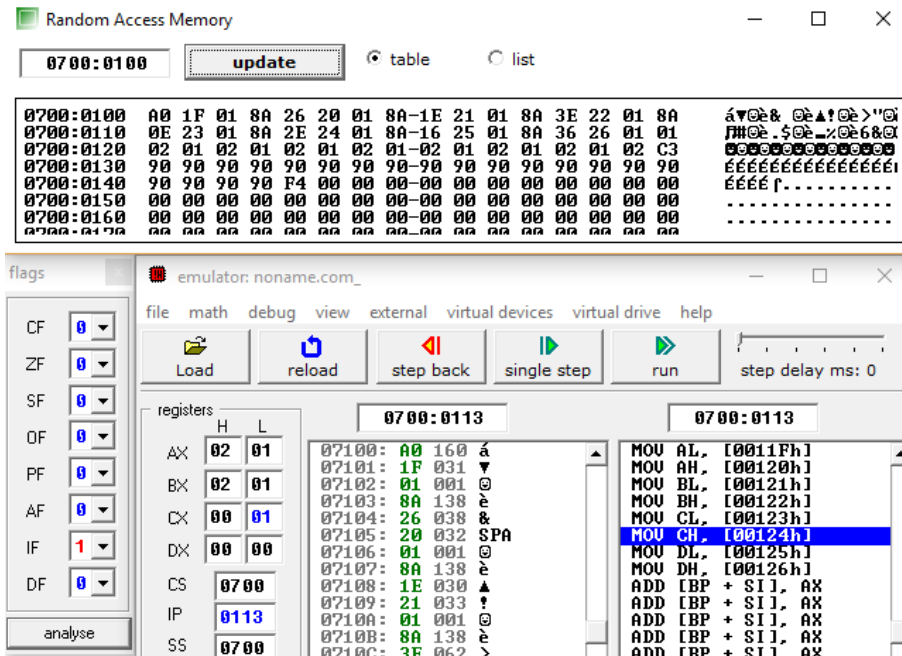

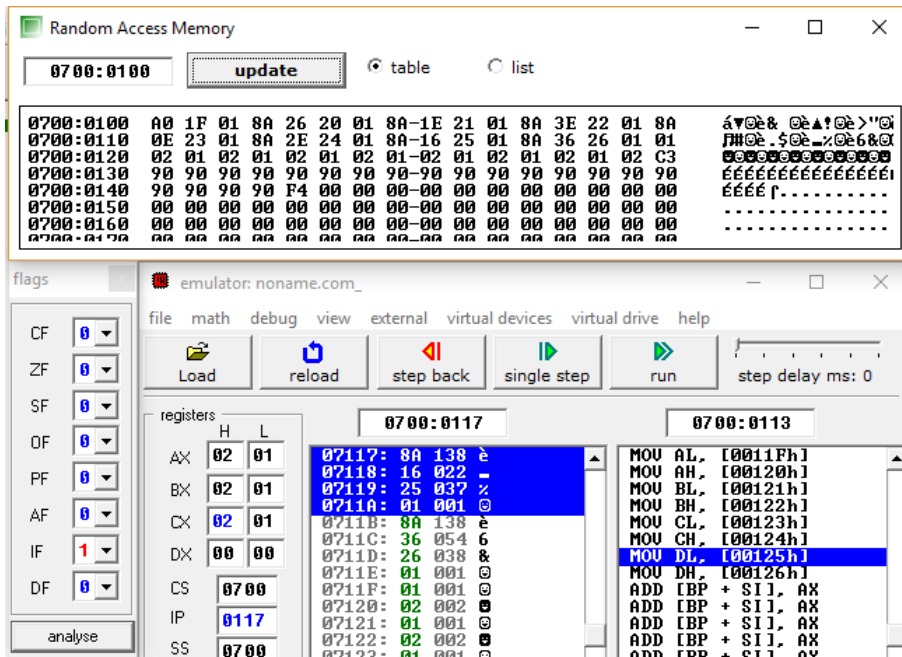
**Figure : 4 (After 4th Execution)**

**Figure : 5(After 5th Execution)**



**Figure : 6 (After 6th Execution)**

**Figure : 7 (After 7th Execution)**



**Figure : 8 (After 8th Execution)**