**LAB REPORT : 5**

**Name = Abubaker Attique**

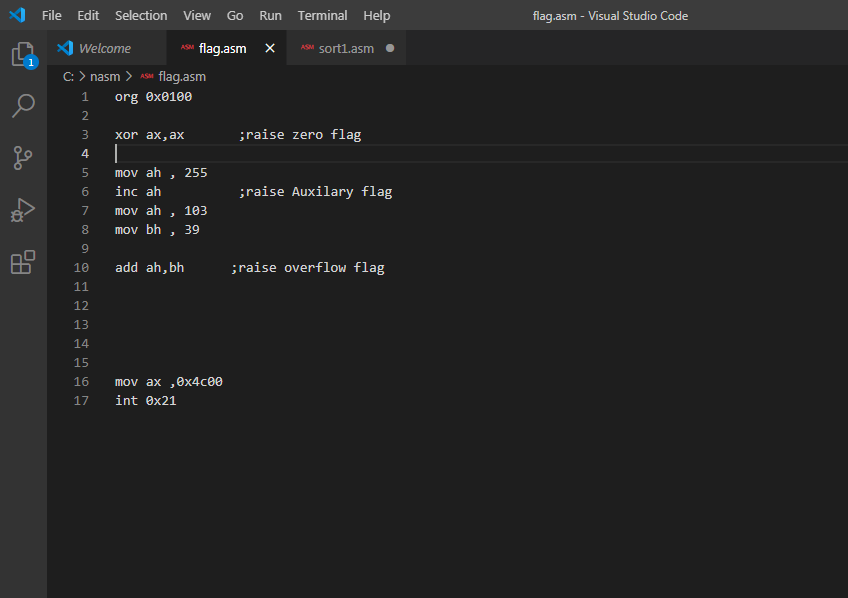
**Roll num= P20-0560**

**-----------------------------------**

**TASK 2 :**

**Flags**

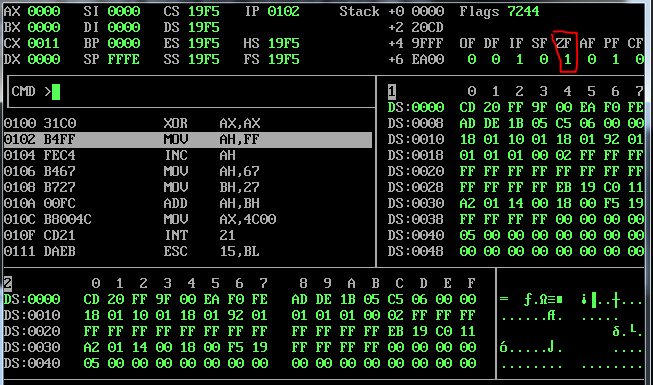
**CODE:**



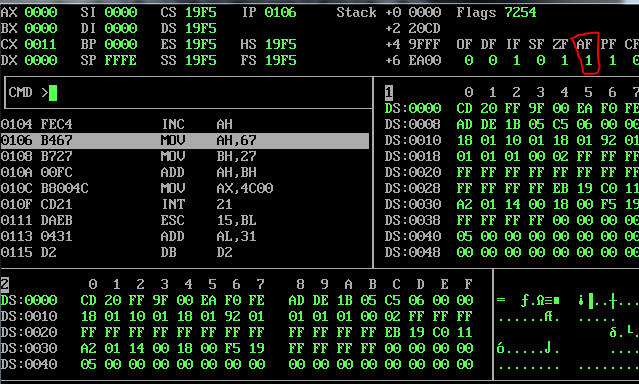
**Explanation With output :**

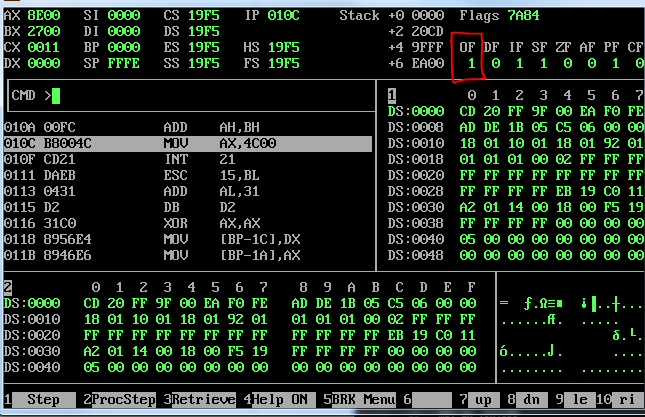
* The zero flag will be set because our previous instruction

( XOR AX,AX ) results lead to zero.



* The Auxiliary Flag will be set because first we store 255 in AH(Maximum Number) and after that we increment it and it will overflow.



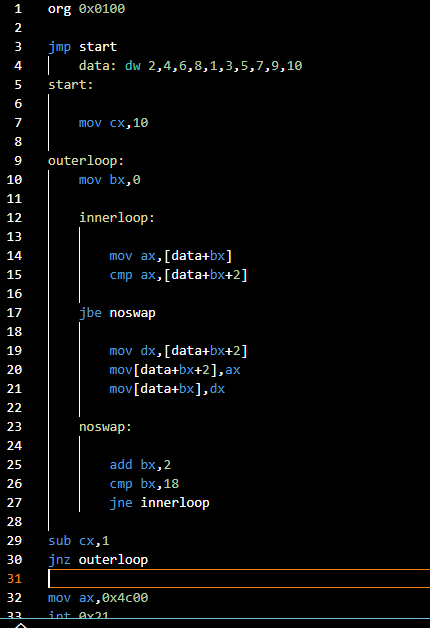


**TASK 2 :**

**Sorting**

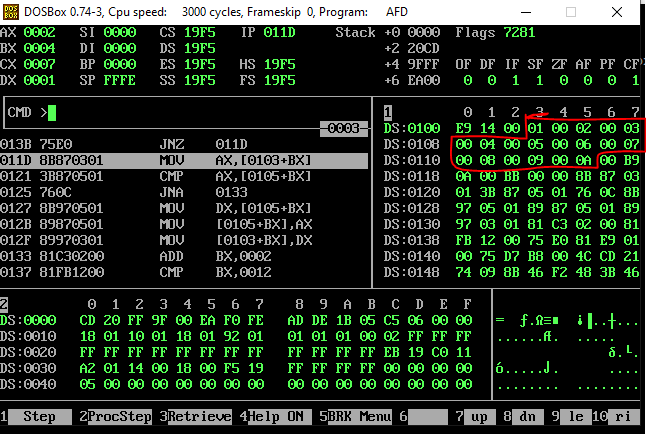
**Example1 :-**

**CODE:**

****

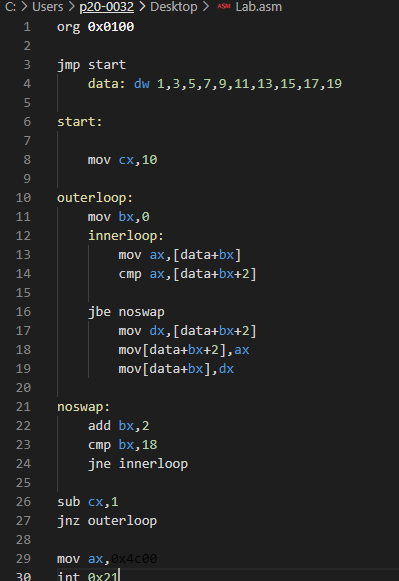
**OUTPUT:**

The Data is sorted in DS as shown below.

****

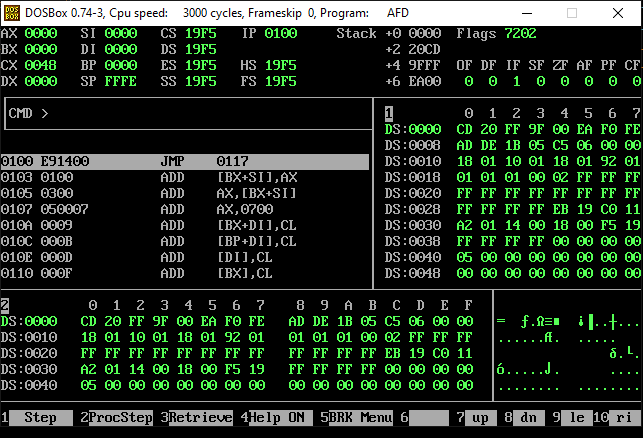
**Example2 :-**

**CODE:**

****

**OUTPUT:**

The Data is sorted in DS as shown below



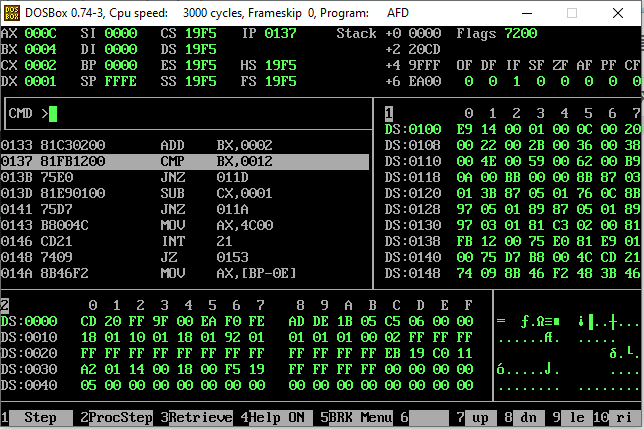
**Example3 :-**

**CODE:**

****

**OUTPUT:**

The Data is sorted in DS as shown below

****

**THANKS**