February 21, 2019

**Lab Assignment 1**

Microprocessor & Assembly Language

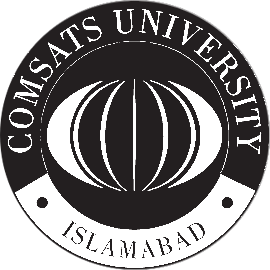
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**Statement:**

*Take two values at two different memory locations. Perform following operations on numbers.*

* *AND*
* *OR*
* *INC first Number by 4*
* *Second number by 2*
* *DEC first Number by 3*
* *Second number by 1*

*Show all the Individual Results at Six Consecutive Memory Allocation.*

**Solution:**

org 100h

***;Take two values at two different memory locations***

MOV Ah,8

MOV Bh,7

***;AND Operation***

AND Ah,Bh

MOV [1],Ah

***;OR Operation***

OR Ah,Bh

MOV [2],Ah

***;INC first Number by 4 & Second number by 2***

INC Ah

INC Ah

INC Ah

INC Ah

MOV [3],Ah

INC Bh

INC Bh

MOV [4],Bh

***;DEC first Number by 3 & Second number by 1***

DEC Ah

DEC Ah

DEC Ah

MOV [5],Ah

DEC Bh

MOV [6],Bh

ret

