**Assembly language Lab**

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**1. An Assembly code to take an input and display it in same line.**

.MODEL SMALL

.CODE

MAIN PROC

MOV AH, 01

INT 21H

MOV BL,AL

MOV AH,02

MOV DL,BL

INT 21H

MAIN ENDP

END MAIN

**2. An Assembly code to take an input and display it in new line**.

.MODEL SMALL

.CODE

MAIN PROC

MOV AH, 01

INT 21H

MOV BL,AL

MOV AH,02

MOV DL,13

INT 21H

MOV DL,010

INT 21H

MOV AH,02

MOV DL,BL

INT 21H

MAIN ENDP

END MAIN

**3. An Assembly code to add two numbers**

.MODEL SMALL

.STACK 100H

.DATA

A DB 'ENTER 1ST NUMBER $'

B DB 'ENTER 2ND NUMBER $'

R DB 'ADDITION $'

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV AH,09

LEA DX,A

INT 21H

MOV AH,01

INT 21H

MOV BL,AL

MOV AH,02H

MOV DL,13

INT 21H

MOV DL,10

INT 21H

MOV AH,09

LEA DX,B

INT 21H

MOV AH,01

INT 21H

MOV Bh,AL

MOV AH,02H

MOV DL,13

INT 21H

MOV DL,10

INT 21H

MOV AH,09

LEA DX,R

INT 21H

ADD BL,Bh

SUB BL,30H

MOV AH,02

MOV DL,BL

INT 21H

**An Assembly code to subtraction**

.MODEL SMALL  
.STACK 100H  
  
.DATA  
B DW 08H  
C DW 02H  
  
.CODE  
MAIN PROC  
MOV AX,@DATA  
MOV DS,AX  
  
MOV BX,B  
MOV CX,C  
  
SUB BX,CX  
ADD BX,30H  
  
MOV AH,02  
MOV DX,BX  
INT 21H  
  
MAIN ENDP  
END MAIN