**Assembly language Lab**

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**1. An Assembly code to print HELLO WORLD.**

.MODEL SMALL

.STACK 100H

.DATA

M DB 'HELLO$'

M2 DB 'WORLD$'

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV AH,09H

LEA DX,M

INT 21H

MOV AH,02H

MOV DL,13

INT 21H

MOV DL,10

INT 21H

MOV AH,09H

LEA DX,M2

INT 21H

MOV AX,4CH

INT 21H

MAIN ENDP

END MAIN

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

.MODEL SMALL

.STACK 100H

.DATA

A DB 'Enter First Number: $'

B DB 'Enter Second Number: $'

R DB 'Sum: $'

.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

MOV AX,4CH

INT 21H

MAIN ENDP

END MAIN