

# **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
```

