

Assembly language Lab

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Submitted by:

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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
```