

Ex-1.

MP & ML

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S6 CSE

Rollno: 5

Aim:- Assembly program for add 2 nos.

Algorithm

1. Initialize the data segment
2. Get the first number in DL register
3. Get the second number in DL register
4. Add the two numbers.
5. Store the result in DI
6. Display the result.
7. Stop.

Program

DATA SEGMENT

A db 5

B db 3

C db ?

data segment

code segment

assume cs: code, ds: data

start:

```
MOV    AX, DATA
MOV    DS, AX
MOV    BL, A
MOV    DL, B
MOV    DL, BL
ADD    DI, AX
ADD    AH, 2
MOV    INT 21H
MOV    C, DI
MOV    AH, 4Ch
INT    21h
CODE
ENDS
START
```



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...



File Edit Search View Options Help

C:\ADD.ASM

;Assembly program to add two numbers

data segment

a db 5

b db 3

c db ?

data ends

code segment

assume cs:code, ds:data

start:

mov ax,data

move ds,ax

mov bl,a

mov dl,b

add dl,bl

add dl,48

mov ah,2

int 21h

mov c,dl

mov ah,4ch

int 21h

code ends

end start

F1=Help

Line:5

Col:36



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...



C:\>edit add.asm

C:\>masm add.asm

Microsoft (R) Macro Assembler Version 5.00

Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

Object filename [add.OBJ]: ;

Source listing [NUL.LST]: ;

51766 + 464778 Bytes symbol space free

0 Warning Errors

0 Severe Errors

C:\>link add.obj

Microsoft (R) Overlay Linker Version 3.60

Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

Run File [ADD.EXE]: ;

LINK : warning L4021: no stack segment

C:\>add.exe

8

C:\>_

Exap - 2

App: Assembly program to print 'hello world'.

Program

DATA SEGMENT

MESSAGE DB "HELLO WORLD"

DATA ENDS

CODE SEGMENT

ASSUME CS:DATA, CS:CODE

START:

MOV AX, DATA

MOV DS, AX

LEA DX, MESSAGE

MOV AH, 9

INT 21H

MOV AH, 4CH

INT 21H

CODE ENDS

END START



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...



File Edit Search View Options Help

C:\HELLO.ASM

;Assembly program to print hello world

DATA SEGMENT

MESSAGE DB "HELLO WORLD !!!\$"

DATA ENDS

CODE SEGMENT

ASSUME DS:DATA,CS:CODE

START:

MOV AX,DATA

MOV DS,AX

LEA DX,MESSAGE

MOV AH,9

INT 21H

MOV AH,4CH

INT 21H

CODE ENDS

END START

F1=Help

Line:1

Col:1



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...



```
Object filename [hello.OBJ]: ;  
hello.asm(6): warning A4001: Extra characters on line  
hello.asm(7): error A2062: Missing or unreachable CS
```

```
51758 + 464786 Bytes symbol space free
```

```
1 Warning Errors
```

```
1 Severe Errors
```

```
C:\>edit hello.asm\
```

```
C:\>masm hello.asm
```

```
Microsoft (R) Macro Assembler Version 5.00
```

```
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
```

```
Object filename [hello.OBJ]: ;
```

```
51758 + 464786 Bytes symbol space free
```

```
0 Warning Errors
```

```
0 Severe Errors
```

```
C:\>hello.exe
```

```
HELLO_!
```

```
C:\>
```