LAB Assignment 67005_Saghir Ali

TASK 1:

```
File Edit Search View Options Help
                                       C:\LAB.ASM
                           :Tells assembler to order segemnts in standard way
dosseg
 .model small
                           ; Define memory model
 .stack 100h
                           ; reserve 256 bytes for stack
 .data
                          : data segments
.code ;code segment starts
main proc ; main procedure
mov dl, 's' ;put ASCII of 's' in DL Register
mov ah, 2 ; function 2 of INT 21H
int 21h ; CALL DOS INTRUPT TO PRINT 'S'
 .code
                          code segment starts
int 21h
mo∨ dl, 'a'
                          : LOAD 'A'
mov ah,2
int 21h
                       ; LOAD G
mo∨ dl,'g'
mo∨ah,Ž
int 21h
mo∨ dl, 'h'
                       ; LOAD H
mo∨ah, 2
int 21h
mo∨ dl, 'i'
                          ; LOAD I
movah, 2
int 21h
mov dl, 'r'
                          ; LOAD R
```

```
Z:\>sel BLHSIER=H220 17 D1 H5 16

Z:\>mount c c:/mp

Drive C is mounted as local directory c:/mp\

Z:\>c:

C:\>edit LAB.asm

C:\>link LAB.obj;

Microsoft (R) Overlay Linker Version 3.60

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C:\>LAB.exe

saghir
```

TASK 2:

```
BB DOSBox 0.74, Cpu speed: 3000 cycles, Frames...
                                                                        ×
  File Edit Search View Options Help
                               C:NTASKZ.ASM
[org 0x100]
                    ; set origin at 0×100
                   :load into AX Register
mov ax,3
mov bx,2
                   : load into bx register
add ax,bx
                   ; AX = AX + BX now holds 10
                   ; load in to bx register
mov bx,6
mov ax,0x4c00
                   :terminate program
int 0x21
                    : interrupt to exit programS_
F1=Help
                                                   Line:7
                                                               Col:49
```

```
BB DOSBox 0.74, Cpu speed:
                                 3000 cycles, Frames...
                                                                             \times
Z:\>c:
C:\>edit TASKZ.asm
C:\>edit TASKZ.asm
C:\>Nasm TASK2.asm -l t1.lst
C:\>Type t1.lst
                                         [org 0x100]
                                                             ; set origin at 0x1
     2 000000000 B80300
                                         mov ax,3
                                                             ; load into AX Regist
     3 00000003 BB0200
                                         mov bx,2
                                                              ; load into bx regi
ter
     4 00000006 01D8
                                         add ax,bx
                                                              : AX = AX + BX now
olds 10
     5 00000008 BB0600
                                         mov bx,6
                                                              ; load in to bx reg
ster
     6 0000000B B8004C
                                         mo∨ ax,0x4c00
                                                              :terminate program
     7 0000000E CD21
                                         int 0x21
                                                              ; interrupt to exit
programS
     8
```





