

Task 1

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...

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C:\NT2_L1.ASM

```
sdosseg
.model small
.stack 100h
.data
.code
main proc
    mov dl,'a'
    mov ah,2
    int 21h
    mov dl,'b'
    mov ah,2
    int 21h
    mov dl,'d'
    mov ah,2
    int 21h
    mov dl,'u'
    mov ah,2
    int 21h
    mov dl,'l'
    mov ah,2
    int 21h
    mov dl,'l'
    mov ah,2
    int 21h
    mov dl,'a'
    mov ah,2
    int 21h
    mov dl,'h'
    mov ah,2
    int 21h
    mov ah,4ch
    int 21h
    main endp
end main
```

:define the memory model as 'small'
:Allocate 256 bytes(100h) for the stack
:data segment declaration
:code segment begins
:enter point of the program
:dl will hold the character to display
:set ah to 2 which is the function code for dispaly ou
:call DOS interrupt 21h to display the character in dl
:dl will hold the character to diplay
:sat ah to which is the function code for display ou
:call dos interrupt 21h exit the program
:dl will hold the charcter to display
:set ah to 2 which is the function code for dispaly ou
:call dos interrupt 21h exit the program
:dl will hold the character to display
:set ah to 2 which is the function code for dispaly ou
:call DOS interrupt 21h to display the character in dl
:set ah to 2 which is the function code for dispaly ou

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C:\NT2_L1.ASM

```
isnt 21h
mov dl,'u'
mov ah,2
int 21h
mov ah,2
mov dl,'l'
mov ah,2
int 21h
mov dl,'l'
mov ah,2
int 21h
mov dl,'a'
mov ah,2
int 21h
mov dl,'h'
mov ah,2
int 21h
mov ah,4ch
int 21h
main endp
end main
```

:call dos interrupt 21h exit the program
:dl will hold the charcter to display
:set ah to 2 which is the function code for dispaly ou
:call1 DOS interrupt 21h to display the character in dl
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:dl will hold the charcter to display
:set ah to 2 which is the function code for dispaly ou
:call1 DOS interrupt 21h to display the character in dl
:which is the fuction for code terminating
:call1 DOS interrupt 21h to display the character in dl
:end of procedure
:end of the program and set entry point

F1=Help || Line:15 Col:3

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ... — □ ×  
C:\>t2_11.exe  
Abdullah  
C:\>edit t2_11.asm  
  
C:\>masm t2_11.asm;  
Microsoft (R) Macro Assembler Version 5.00  
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.  
  
51710 + 464834 Bytes symbol space free  
0 Warning Errors  
0 Severe Errors  
  
C:\>link t2_11.obj;  
  
Microsoft (R) Overlay Linker Version 3.60  
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.  
  
C:\>t2_11.exe  
abdullah
```

Task 2

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — □ ×  
File Edit Search View Options Help C:\NT1_L2.ASM  
[org 0x100] :set origin at 0x100  
mov ax,3 :load 6 into AX register  
mov bx,2 :load 4 into BX register  
add ax,bx :AX = AX + BX now holds 10  
mov bx,6 :load 3 into bx register  
mov ax,0x4c00 :terminate program  
int 0x21 :interrupt to exit program  
  
Commands for manipulating files
```

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...

```
C:\>t2_11.exe
abdullah
C:\>edit t2_11.asm
C:\>edit t2_12.asm
C:\>edit t2_12.asm
C:\>Nasm t2_12.asm -o t2.com
C:\>t2.com
C:\>Nasm t2_12.asm -l t2.lst
C:\>Type t2.lst
 1          [org 0x100]
 2 00000000 BB0800  mov ax,8
 3 00000003 BB0100  mov bx,1
 4 00000006 01D8    add ax,bx
 5 00000008 BB0400  mov bx,4
 6 0000000B B8004C  mov ax,0x4c00
 7 0000000E CD21    int 0x21
```