

Lab#1

Homework:

Write an assembly language program to print all letters as follows:

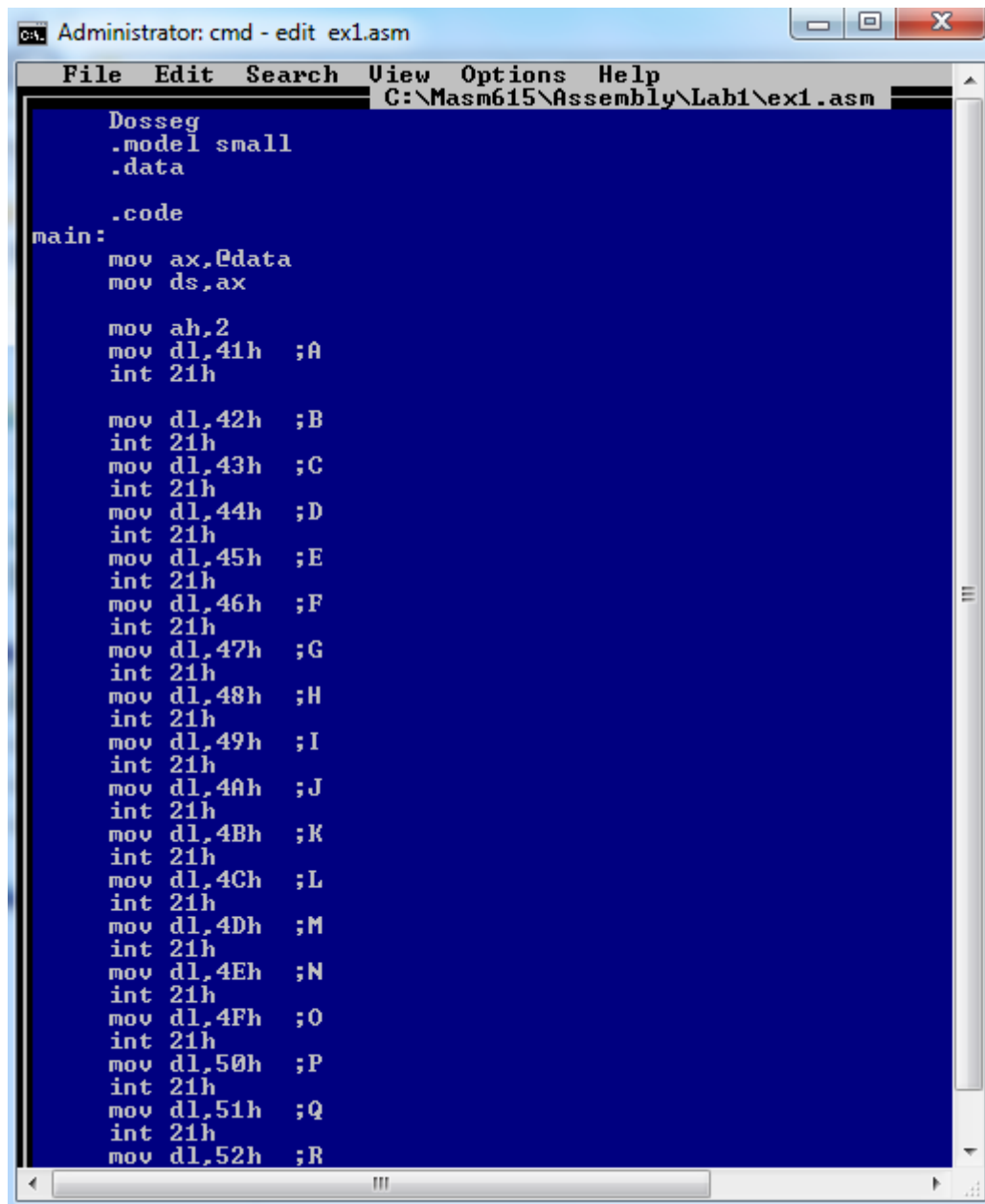
AB.....YZ

Note: To print a character on the screen you have to use the **int 21h** with the service **2**, the character to be printed have to be in **dl**. For Example, the following code print **A** on the screen.

```
mov ah, 2
mov dl, 41h
int 21h
```

Note: Don't use loop.

Solution:



```
Administrator: cmd - edit ex1.asm
File Edit Search View Options Help
G:\Masm615\Assembly\Lab1\ex1.asm

Dosseg
.model small
.data

.code
main:
mov ax,@data
mov ds,ax

mov ah,2
mov dl,41h ;A
int 21h

mov dl,42h ;B
int 21h
mov dl,43h ;C
int 21h
mov dl,44h ;D
int 21h
mov dl,45h ;E
int 21h
mov dl,46h ;F
int 21h
mov dl,47h ;G
int 21h
mov dl,48h ;H
int 21h
mov dl,49h ;I
int 21h
mov dl,4Ah ;J
int 21h
mov dl,4Bh ;K
int 21h
mov dl,4Ch ;L
int 21h
mov dl,4Dh ;M
int 21h
mov dl,4Eh ;N
int 21h
mov dl,4Fh ;O
int 21h
mov dl,50h ;P
int 21h
mov dl,51h ;Q
int 21h
mov dl,52h ;R
```

```
Administrator: cmd - edit ex1.asm
mov dl,52h ;R
int 21h
mov dl,53h ;S
int 21h
mov dl,54h ;T
int 21h
mov dl,55h ;U
int 21h
mov dl,56h ;U
int 21h
mov dl,57h ;W
int 21h
mov dl,58h ;X
int 21h
mov dl,59h ;Y
int 21h
mov dl,5Ah ;Z
int 21h

mov ah,4ch
int 21h
end main
F1=Help
```

```
Administrator: cmd
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Masm615\Assembly\Lab1>edit ex1.asm
C:\Masm615\Assembly\Lab1>make16 ex1
Assembling: ex1.asm
LINK : warning L4021: no stack segment
Volume in drive C has no label.
Volume Serial Number is 46F4-B314

Directory of C:\Masm615\Assembly\Lab1

02/08/2013 01:23 AM          1,091 ex1.asm
02/08/2013 01:23 AM          1,732 ex1.exe
02/08/2013 01:23 AM          3,135 ex1.lst
02/08/2013 01:23 AM           641 ex1.obj
               4 File(s)          6,599 bytes
               0 Dir(s) 11,856,228,352 bytes free
Press any key to continue . . .

C:\Masm615\Assembly\Lab1>ex1
ABCDEFGHIJKLMNOPQRSTUVWXYZ
C:\Masm615\Assembly\Lab1>
```

Note:
You can print a character as follows:

```
mov ah, 2
mov dl, 'A'
int 21h
```