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Lab 12

Task1

```
.model small
.stack 100h
.data
fname db 'labtask.txt',0
fhandle dw 0
buffer db 500 dup('$')

.code
mov ax,@data
mov ds,ax

mov dx,offset fname
mov al,2

mov ah,3dh
int 21h

mov bx,ax

mov dx,offset buffer
mov ah,3fh

int 21h

mov ah,09h
int 21h

mov ah,3eh
mov bx,fhandle
int 21h

mov ah,4ch
int 21h

end
```

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...
task.asm(34): error A2034: must be in segment block
task.asm(35): error A2034: must be in segment block
task.asm(36): error A2034: must be in segment block
task.asm(38): error A2034: must be in segment block
task.asm(39): error A2034: must be in segment block

C:\>ml task.asm
Microsoft (R) Macro Assembler Version 6.11
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Assembling: task.asm

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.

Object Modules [.obj]: task.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address

C:\>task.exe
Ahmed
C:\>_
```

Task2

```
.model small
.stack 100h
.data
fname db 'labtask.txt',0
fhandle dw 0
buffer db 500 dup('$')

msg1 db 'Coal$'
.code
mov ax,@data
mov ds,ax

mov dx,offset fname
mov al,2

mov ah,3dh
int 21h

mov bx,ax

mov dx,offset buffer
mov ah,3fh

int 21h

mov ah,09h
```

```
int 21h
```

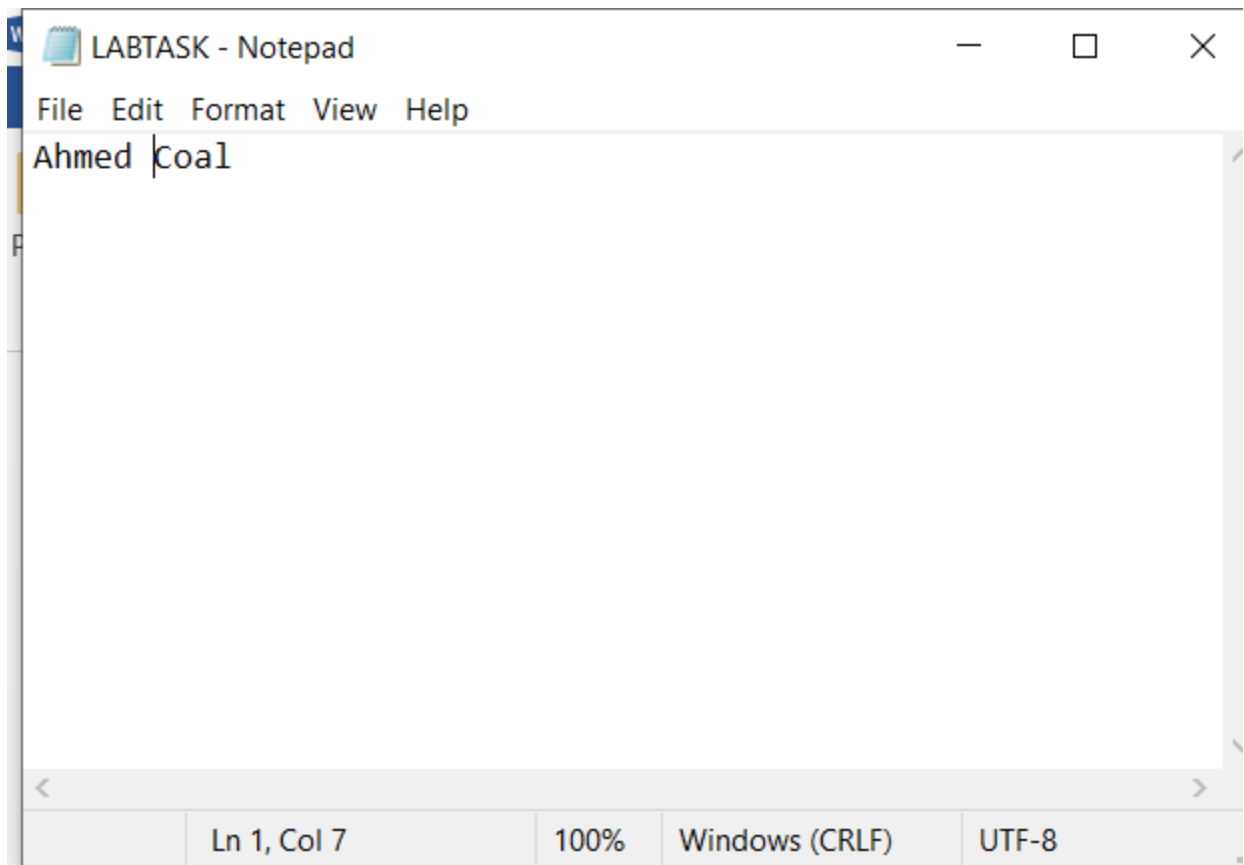
```
mov cx,0  
mov AH,42  
MOV AL,02  
int 21h
```

```
mov cx,7  
mov dx, offset msg1  
mov ah,40h  
int 21h
```

```
mov ah,3eh  
mov bx,fhandle  
int 21h
```

```
mov ah,4ch  
int 21h
```

```
end
```



Task3

```
.model small
```

```
.stack 100h
.data
    a db 3
    b db 4
    d db 5

.code

mov ax,@data
mov ds,ax

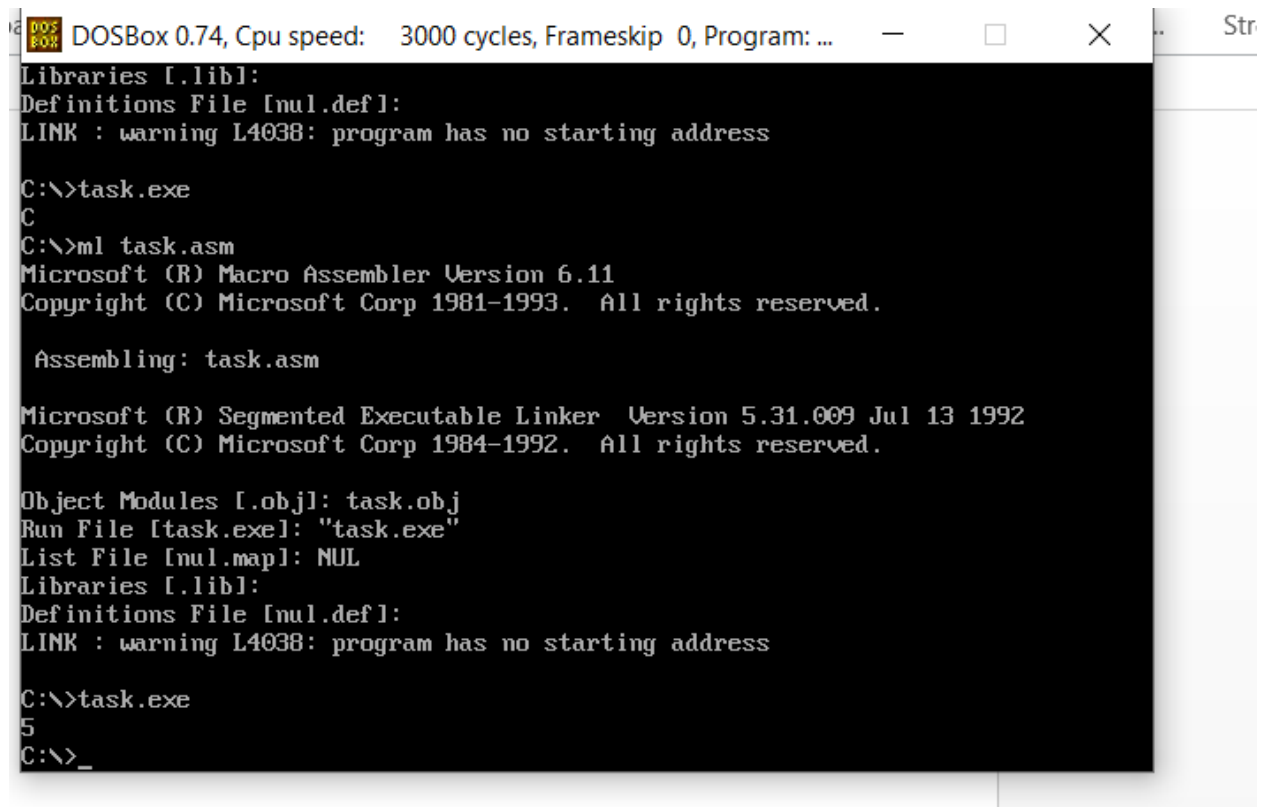
mov al,a
mov bl,b
mov cl,d

.if ((al>bl) && (al>d))
    mov dl,a
    add dl,48
    mov ah,02h
    int 21h

.elseif((bl>al) && (bl>d))
    mov dl,b
    add dl,48
    mov ah,02h
    int 21h

.else
    mov dl,d
    add dl,48
    mov ah,02h
    int 21h
.endif

mov ah,04ch
int 21h
end
```



```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address

C:\>task.exe
C
C:\>ml task.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.

Assembling: task.asm

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.

Object Modules [.obj]: task.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4038: program has no starting address

C:\>task.exe
5
C:\>_
```

Task4

```
.model small
.stack 100h
.data

.code

mov ah,00h
mov al,13
int 10h

;for setting background color
mov ah, 0bh
mov bh, 00h
mov bl, 01h ;blue color
int 10h

;to write pixel
mov ah,0ch
mov al,0fh ;white color
mov bh,0 ;page number
mov cx,160
mov dx, 100
int 10h

mov ah,4ch
int 21h

end
```

