

EXPERIMENT N0-2

AIM: Write a program to verify that the number is even or odd

CODE:

data segment

msg1 db 0ah,0dh,"Enter a no: \$"

msg2 db 0ah,0dh,"Numbers is even \$"

msg3 db 0ah,0dh,"Numbers is odd \$"

data ends

code segment

assume cs:code,ds:data

start: mov ax,data

mov ds,ax

mov dx,offset msg1

mov ah,09h

int 21h

s1: mov ah,01h

int 21h

ror al,01h

jnc even1

mov dx,offset msg3

mov ah,09h

int 21h

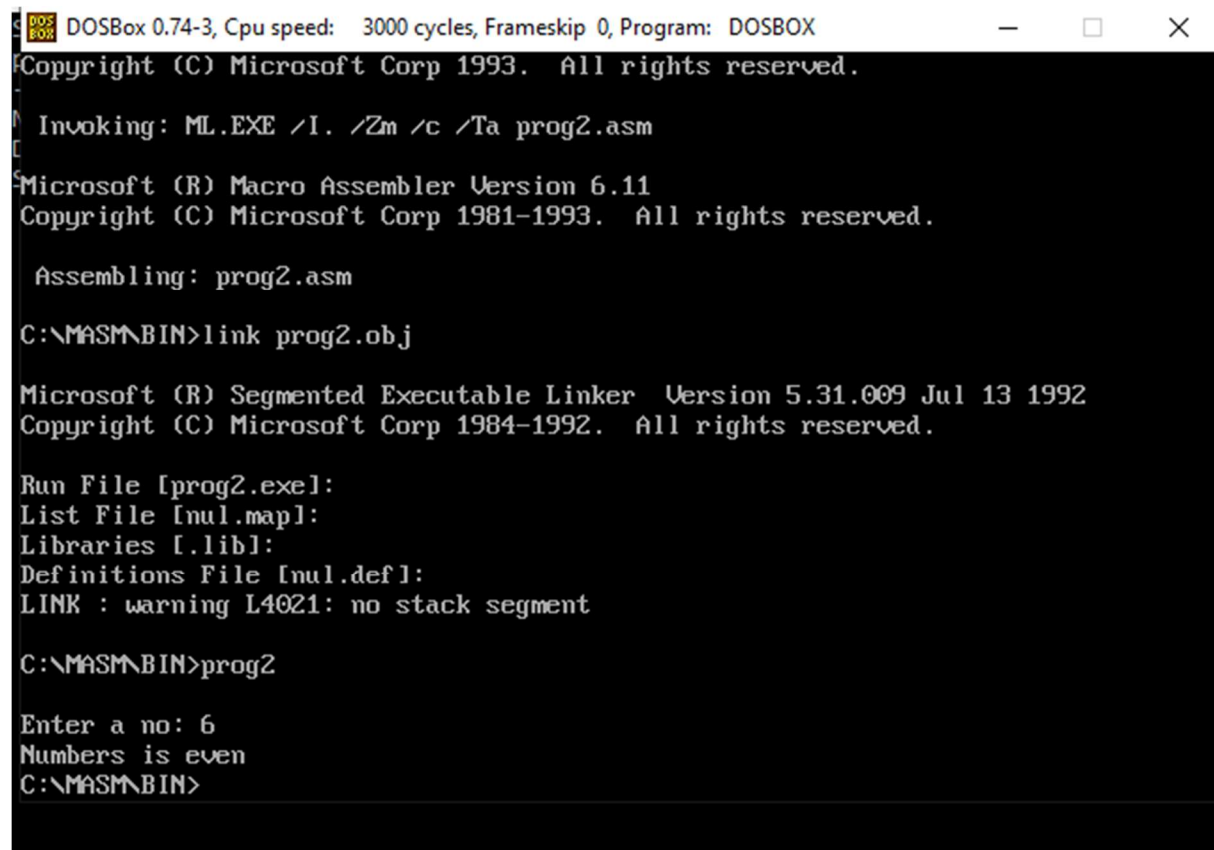
jmp finish

even1: mov dx,offset msg2

mov ah,09h

```
        int 21h
finish:  mov ah,4ch
        int 21h
code ends
end start
```

OUTPUT:



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
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Invoking: ML.EXE /I. /Zm /c /Ta prog2.asm

Microsoft (R) Macro Assembler Version 6.11
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Assembling: prog2.asm

C:\MASM\BIN>link prog2.obj

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
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Run File [prog2.exe]:
List File [nul.map]:
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4021: no stack segment

C:\MASM\BIN>prog2

Enter a no: 6
Numbers is even
C:\MASM\BIN>
```

```
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Invoking: ML.EXE /I. /Zm /c /Ta prog2.asm

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Assembling: prog2.asm

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Run File [prog2.exe]:
List File [nul.map]:
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4021: no stack segment

C:\MASM\BIN>prog2

Enter a no: 1
Numbers is odd
C:\MASM\BIN>_
```