

EXPERIMENT N0-4

AIM: Write an ALP to find largest number from a set of numbers.

CODE:

DATA SEGMENT

MSG1 DB 0dh,0ah,"Enter your 10 numbers: \$"

MSG2 DB 0dh,0ah,"The Largest number is: \$"

DATA ENDS

CODE SEGMENT

ASSUME CS: CODE, DS:DATA

START: MOV AX, DATA

 MOV DS, AX

 MOV SI, 6000H

 MOV [SI], 0H

 MOV CL, 0AH

S:MOV DX, OFFSET MSG1

 MOV AH, 09H

 INT 21H

S1:MOV AH, 01H

 INT 21H

 CMP AL, BYTE PTR [SI]

 JGE S2

S4:DEC CL

 CMP CL, 00H

 JNZ S

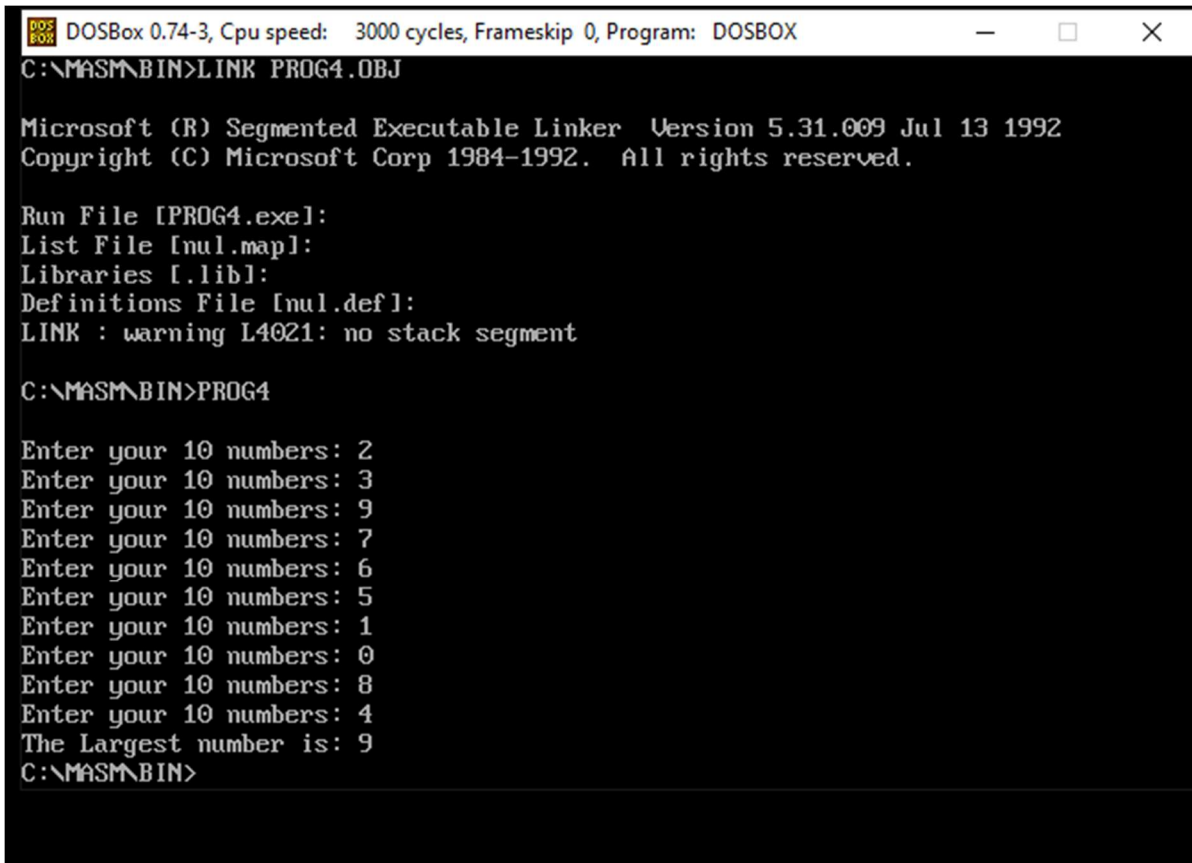
 JMP S3

S2:MOV [SI], AL

 JMP S4

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S3: MOV DX, OFFSET MSG2
    MOV AH, 09H
    INT 21H
    MOV BX,[SI]
    MOV DX, BX
    MOV AH, 02H
    INT 21H
    MOV AH, 4CH
    INT 21H
    CODE ENDS
END START
```

OUTPUT:



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
C:\MASM\BIN>LINK PROG4.OBJ

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
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Run File [PROG4.exe]:
List File [nul.map]:
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4021: no stack segment

C:\MASM\BIN>PROG4

Enter your 10 numbers: 2
Enter your 10 numbers: 3
Enter your 10 numbers: 9
Enter your 10 numbers: 7
Enter your 10 numbers: 6
Enter your 10 numbers: 5
Enter your 10 numbers: 1
Enter your 10 numbers: 0
Enter your 10 numbers: 8
Enter your 10 numbers: 4
The Largest number is: 9
C:\MASM\BIN>
```