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ROLL.N0:62

SE-4-D

EXPERIMENT N0-3

Aim: Write an ALP to reverse a string.

CODE:

data segment

msg1 db 0dh, 0ah , "Enter the string:$"

msg2 db 0dh, 0ah , "Reverse string is $"

data ends

code segment

assume cs:code, ds:data

start:

```
     mov ax,data
   mov ds,ax
   mov di,4000h
    mov dx,offset msg1
    mov ah,09h
  int 21h
    mov cl,00h
```


```
L1:    mov ah,01h
    int 21h
    mov [di],al
     inc di
     inc cl
     cmp al,0dh
     jnz L1
     sub di,02h
```

```asm
        dec cl

        mov dx,0000h

        mov dx, offset msg2

        mov ah,09h

        int 21h

L2:     mov dl, [di]

        mov ah,02h

        int 21h

        dec di

        dec cl

        jnz L2

        mov ah,4ch

        int 21h

code ends

end start
```
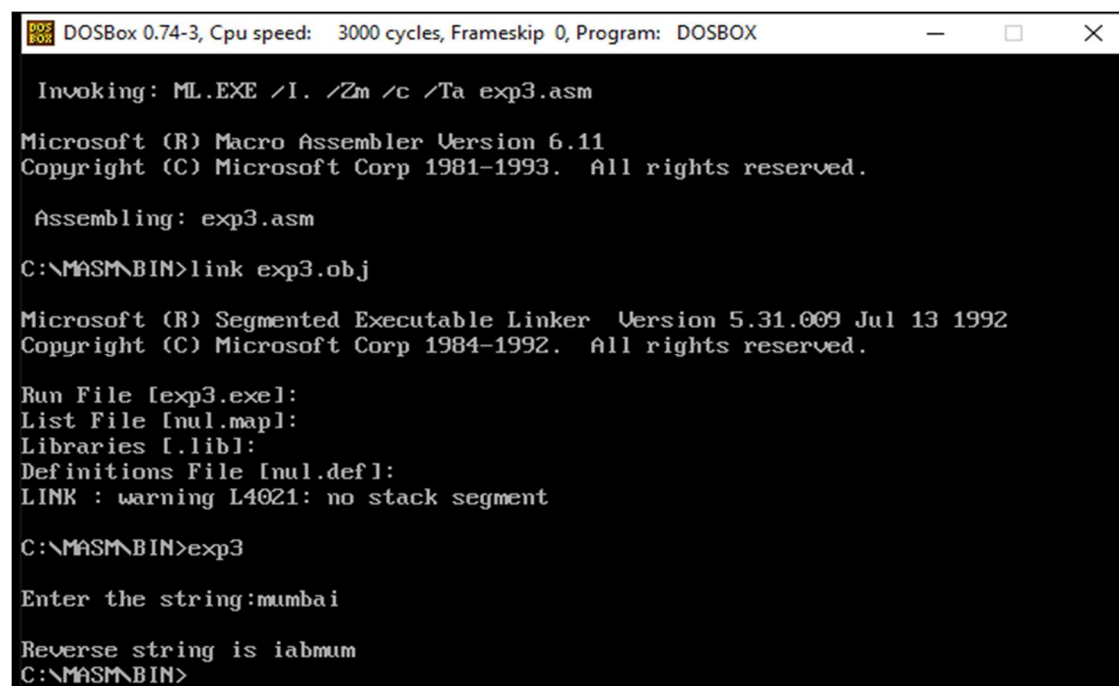
OUTPUT:


```
 DOSBox 0.74-3, Cpu speed:    3000 cycles, Frameskip 0, Program: DOSBOX        —    □    ×

 Invoking: ML.EXE /I. /Zm /c /Ta exp3.asm

Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993.  All rights reserved.

 Assembling: exp3.asm

C:\MASM\BIN>link exp3.obj

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

Run File [exp3.exe]:
List File [nul.map]:
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4021: no stack segment

C:\MASM\BIN>exp3

Enter the string:mumbai

Reverse string is iabmum
C:\MASM\BIN>
```