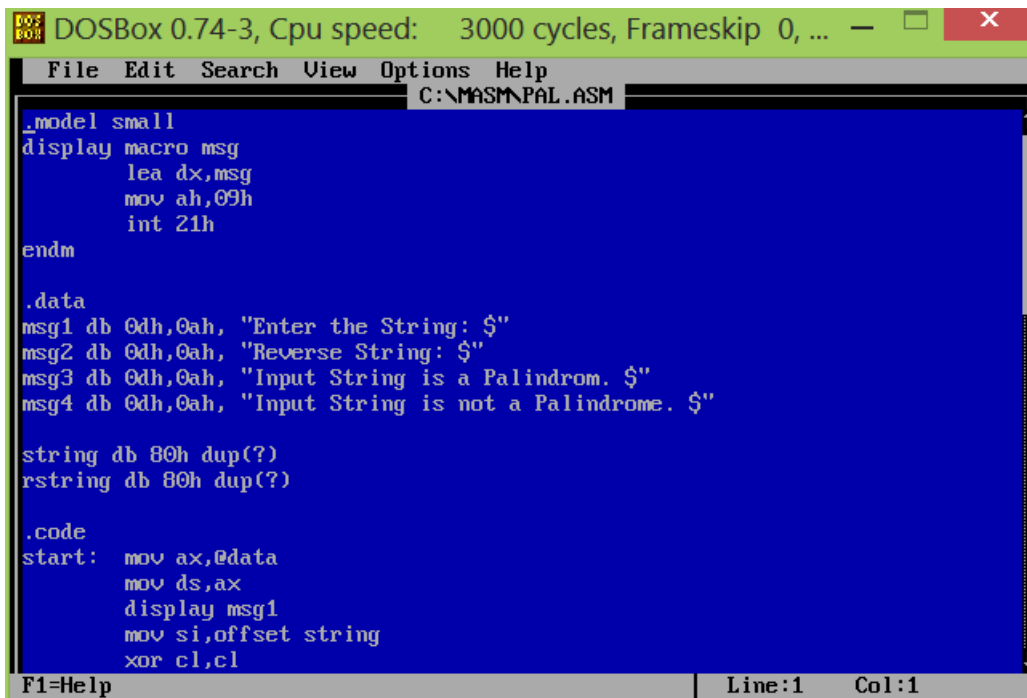


WRITE A PROGRAM TO FIND WHETHER THE GIVEN STRING IS PALINDROME OR NOT:

PROGRAM:



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, ...

File Edit Search View Options Help

C:\MASM\PAL.ASM

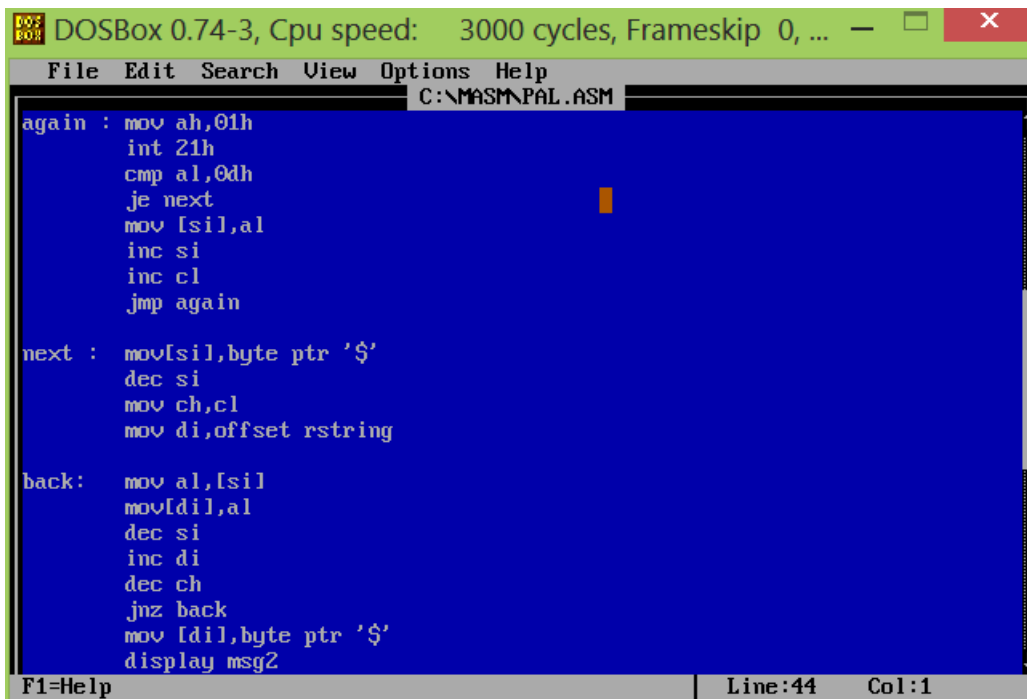
```
.model small
display macro msg
    lea dx,msg
    mov ah,09h
    int 21h
endm

.data
msg1 db 0dh,0ah, "Enter the String: $"
msg2 db 0dh,0ah, "Reverse String: $"
msg3 db 0dh,0ah, "Input String is a Palindrome. $"
msg4 db 0dh,0ah, "Input String is not a Palindrome. $"

string db 80h dup(?)
rstring db 80h dup(?)

.code
start: mov ax,@data
       mov ds,ax
       display msg1
       mov si,offset string
       xor cl,cl
```

F1=Help | Line:1 Col:1



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, ...

File Edit Search View Options Help

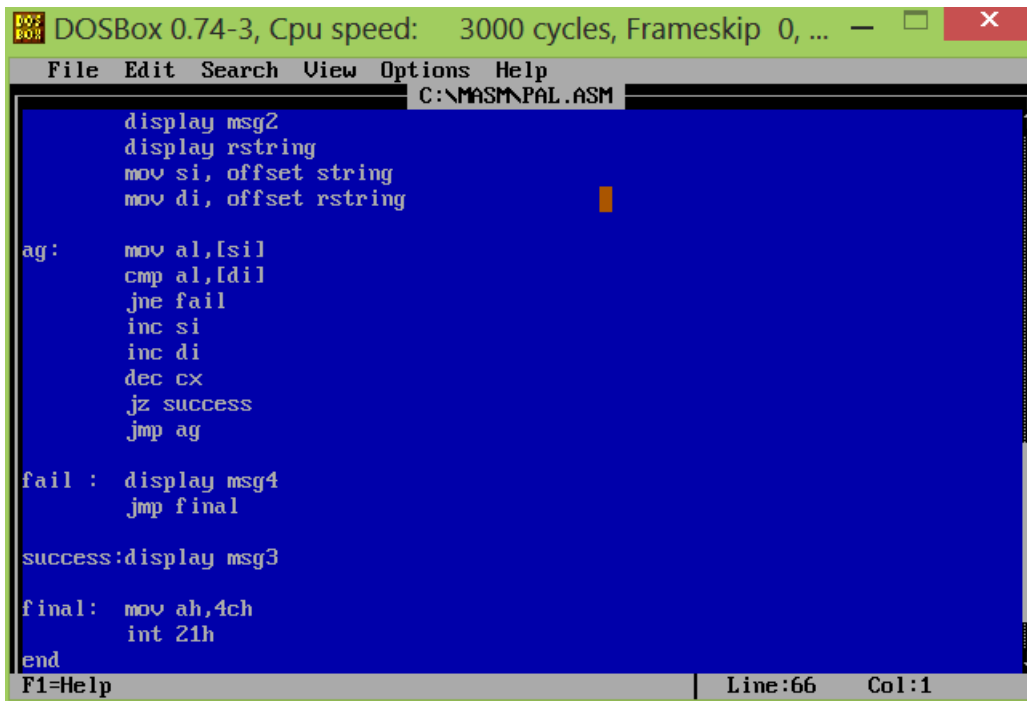
C:\MASM\PAL.ASM

```
again : mov ah,01h
        int 21h
        cmp al,0dh
        je next
        mov [si],al
        inc si
        inc cl
        jmp again

next :   mov [si],byte ptr '$'
        dec si
        mov ch,cl
        mov di,offset rstring

back:    mov al,[si]
        mov [di],al
        dec si
        inc di
        dec ch
        jnz back
        mov [di],byte ptr '$'
        display msg2
```

F1=Help | Line:44 Col:1



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, ...
File Edit Search View Options Help
C:\MASM\PAL.ASM

    display msg2
    display rstring
    mov si, offset string
    mov di, offset rstring

ag:   mov al,[si]
      cmp al,[di]
      jne fail
      inc si
      inc di
      dec cx
      jz success
      jmp ag

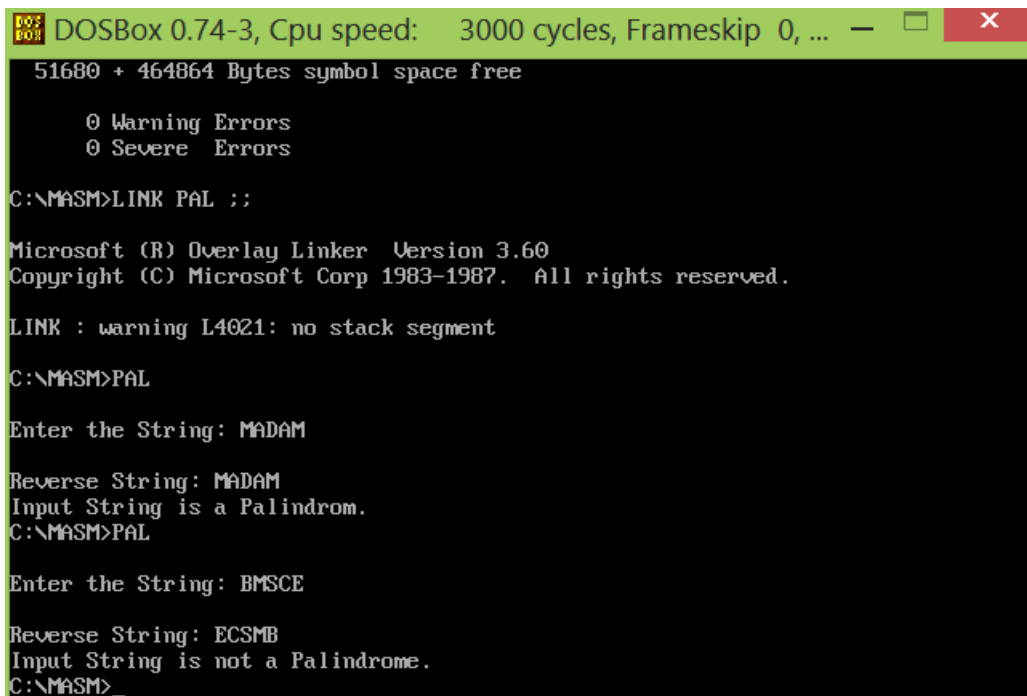
fail:  display msg4
      jmp final

success: display msg3

final: mov ah,4ch
      int 21h

end
F1=Help | Line:66 Col:1
```

## OUTPUT SCREEN:



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, ...

51680 + 464864 Bytes symbol space free

    0 Warning Errors
    0 Severe Errors

C:\MASM>LINK PAL ;;

Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

LINK : warning L4021: no stack segment

C:\MASM>PAL

Enter the String: MADAM

Reverse String: MADAM
Input String is a Palindrom.
C:\MASM>PAL

Enter the String: BMSCE

Reverse String: ECSMB
Input String is not a Palindrome.
C:\MASM>_
```