PROGRAM

DATA SEGMENT

ST1 DB 100 DUP(?)

MSG1 DB "ENTER THE STRING: $"

MSG2 DB "REVERSED STRING: $"

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE

START:

MOV AX,DATA

MOV DS,AX

LEA DX,MSG1

MOV AH,09H

INT 21H

LEA SI,ST1

MOV CL,00H

L1:

MOV AH,01H

INT 21H

CMP AL,0DH

JZ L2

INC CL

INC SI

MOV [SI],AL

JMP L1

L2:

MOV DL,0AH

INT 21H

MOV DL,0DH

INT 21H

LEA DX,MSG2

MOV AH,09H

INT 21H

L3:

```asm
            MOV DL,[SI]
            MOV AH,02H
            INT 21H
            DEC SI
            DEC CL
            CMP CL,00H
            JNZ L3
            MOV AH,4CH
            INT 21H
        CODE ENDS
        END START
```

OUTPUT

ENTER THE STRING: HELLO

REVERSED STRING: OLLEH