

11/11/2020



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Palindrone or not Lab program - 4

Name - TUSHAR PATI
USN - 18M19CS174

• MODEL SMALL

DISPLAY MACRO MSG.

LEA DX, MSG.

MOV AH, 09H.

INT 21H

ENDM

• DATA

MSG1 DB 0DH, 0AH, "Enter a string: - \$"

MSG2 DB 0DH, 0AH, "Entered string is a palindrone \$"

MSG3 DB 0DH, 0AH, "Entered string is not a palindrone \$"

STR DB 10H DUP(0)

~~STR~~ REVSTR DB 10H DUP(0)

LEN DW 0

• CODE

MOV AX, @DATA

MOV DS, AX.

DISPLAY MSG1

MOV SI, 00H.

BACK1: MOV AH, 01H

INT 21H

CMP AL, 0DH

JZ NEXT


```
MOV STR[SI], AL
INC SI
INC LEN
JMP BACK1
```

NAME - TUSHAR A PAZ
USN - IBM19CS174

```
NEXT NEXT : MOV SI, 00H
MOV DI, 00H
ADD DI, LEN
DEC DI
MOV CX, LEN
```

```
BACK2 : MOV AL, STR[SI]
MOV REUSTR[DI], AL
INC SI
DEC DI
```

```
LOOP BACK BACK2
```

```
MOV CX, LEN
MOV SI, 00H
MOV DI, 00H
CLD
```

```
BACK3 : MOV BL, STR[SI]
CMP BL, REUSTR[DI]
JNZ NOTPALI
LOOP BACK3
DISPLAY MSG2
JMP LAST
```

```
NOTPALI : DISPLAY MSG MSG3
```

```
LAST : MOV AH, 4CH
INT 21H
END
```