**EXPERIMENT N0-5**

AIM: Write ALP to identify the string is palindrome or not.

**CODE:**

DATA SEGMENT

MSG DB "ENTER STRING:$"

MSG1 DB 0AH, "STRING IS PALINDROME$"

MSG2 DB 0AH, "STRING IS NOT PALINDROME$"

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE, DS:DATA

START: MOV AX,DATA

MOV DS, AX

MOV DX, OFFSET MSG

MOV AH, 09H

INT 21H

MOV CL, 00H

MOV DI, 2000H

MOV SI, 1000H

UP: MOV AH, 01H

INT 21H

MOV [SI], AL

MOV [DI],AL

INC SI

INC DI

INC CL

CMP AL, 0DH

JNZ UP

MOV SI, 1000H

SUB DI, 02H

DEC CL

UP1: MOV BL, [SI]

CMP BL ,[DI]

JNZ NOTPAL

INC SI

DEC DI

DEC CL

JZ DOWN

JMP UP1

NOTPAL: MOV DX, OFFSET MSG2

MOV AH, 09H

INT 21H

JMP EX

DOWN: MOV DX,OFFSET MSG1

MOV AH, 09H

INT 21H

EX: MOV AH,4CH

INT 21H

CODE ENDS

END START

**OUTPUT:**



