**EXPERIMENT N0-6**

**AIM:  Write ALP to convert BCD number to its Hexadecimal equivalent.**

**CODE:**

DATA SEGMENT

MSG1 DB "ENTER THE NUMBER:$"

MSG2 DB 0AH, "THE NO. IN HEXADECIMAL IS$"

ABC DW?

DATA ENDS

DATA SEGMENT

ASSUME CS:CODE,DS:DATA

START:MOV AX,DATA

MOV DS,AX

MOV DX,OFFSET MSG1

MOV AH,09H

INT 21H

L1:

MOV AH,01H

INT 21H

SUB AL,30H

MOV [SI],AL

INC SI

ADD AL,30H

CMP AL,0DH

JNE L1

MOV AL,[SI-3]

MOV BL,0AH

MUL BL

MOV DL,[SI-2]

MOV DH,00H

ADD AX,DX

MOV ABC,AX

MOV DX,OFFSET MSG2

MOV AH,09H

INT 21H

MOV CL,04H

MOV AX,ABC

LOOP 1:

MOV DX,00H

MOV BX,10H

DIV BX

CMP DX,000AH

JNAE L2

ADD DX,0007H

L2:ADD DX, 0030H

PUSH DX

DEC CL

JNZ LOOP1

MOV CL,04H

DISP: POP DX

MOV AH,02H

INT 21H

DEC CL

JNZ DISP

MOV AH,4CH

INT 21H

CODE ENDS

END START

**OUTPUT:**

