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Name: - DIVYA PRAVIN PATIL
Class:-S.E Computer
Roll No:-45
Batch:-B2
Experiment No:-3
Title:- Program using Near Procedure.
Aim: -8086 Assembly language Program for Addition of two 8-bit HEX
numbers using NEAR Procedure.
DATA SEGMENT
         NO1 DB 12H
         NO2 DB 35H
         HEX CHART DB '0123456789ABCDEF'
          STORE ADDITION DB ?
          H ATTACH DB 'H'
          MSG DB 'RESULT IS :-$'
DATA ENDS
CODE SEGMENT
          ASSUME CS:CODE, DS:DATA
          MOV AX, DATA
          MOV DS, AX
          LEA DX, MSG
          MOV AH, 09H
          INT 21H
          MOV AL, NO1
          ADD AL, NO2
          MOV AH, 00H
          ADC AH,00H
          MOV STORE ADDITION, AL
          MOV AL, AH
          CALL DISP CHAR
          MOV AL, STORE ADDITION
          AND AL, OFOH
          MOV CL,04H
          ROR AL, CL
          CALL DISP CHAR
          MOV AL, STORE ADDITION
          AND AL, OFH
          CALL DISP CHAR
          MOV DL, H ATTACH
          MOV AH,02H
          INT 21H
```

DISP CHAR PROC NEAR

JMP LAST

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MOV BX,00H
MOV BL,AL
MOV DL,HEX_CHART[BX]
MOV AH,02H
INT 21H
RET
DISP_CHAR ENDP
```

LAST:MOV AH,4CH INT 21H

CODE ENDS

END

OUTPUT:- RESULT IS :-047H