NAME :- DIVYA PRAVIN PATIL

CLASS :- SE COMPUTER

ROLL NO :- 45 BATCH :- B2

EXPERIMENT NO :- 5

TITLE: - PROGRAM USING FAR PROCEDURE.

AIM :- Write an 8086 Assembly Language Program for Addition of two 8bit HEX numbers using FAR 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 FAR PTR DISP CHAR

MOV AL, STORE_ADDITION AND AL, OFOH

MOV CL,04H

ROR AL, CL CALL FAR PTR DISP CHAR

MOV AL, STORE_ADDITION AND AL, OFH CALL FAR PTR DISP CHAR

MOV DL,H_ATTACH MOV AH,02H INT 21H MOV AH,4CH INT 21H

CODE ENDS

CODE_FAR SEGMENT

ASSUME CS:CODE_FAR, DS:DATA

DISP_CHAR PROC FAR

MOV BX,00H MOV BL,AL

MOV DL, HEX_CHART[BX]

MOV AH,02H INT 21H RET

DISP_CHAR ENDP

CODE_FAR ENDS END

OUTPUT:- RESULT IS:-047H