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NAME :- DIVYA PRAVIN PATIL
CLASS :- SE COMPUTER
ROLL NO :- 45
BATCH :- B2
EXPERIMENT NO :- 6
TITLE: - MULTIPLICATION PROGRAM USING FAR PROCEDURE.
AIM :- Write an 8086 Assembly Language Program for Multiplication
of two 8bit HEX numbers using FAR Procedure.
DATA SEGMENT
      NO1 DB 03H
      NO2 DB 05H
      HEX CHART DB '0123456789ABCDEF'
      LSB OF RESULT DB ?
      MSB OF RESULT DB ?
      H ATTACH DB 'H'
      MSG DB 'RESULT IS :-$'
DATA ENDS
CODE SEGMENT
      INT 21H ASSUME CS:CODE, DS:DATA
      MOV AX, DATA
      MOV DS, AX
      LEA DX, MSG
      MOV AH, 09H
      INT 21H
      MOV AL, NO1
      MOV BH, NO2
      MUL BH
      MOV MSB OF RESULT, AH
      MOV LSB OF RESULT, AL
      MOV AL, MSB OF RESULT
      AND AL, OFOH
      MOV CL,04H
      ROR AL, CL
      CALL FAR PTR DISP CHAR
      MOV AL, MSB_OF_RESULT
      AND AL, OFH
      CALL FAR PTR DISP CHAR
      MOV AL, LSB OF RESULT
      AND AL, OFOH
      MOV CL,04H
      ROR AL, CL
      CALL FAR PTR DISP CHAR
      MOV AL, LSB OF RESULT
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AND AL, OFH
      CALL FAR PTR DISP CHAR
      MOV DL, H_ATTACH
      MOV AH, 0\overline{H}
      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
     DISP_CHAR ENDP
CODE FAR ENDS
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END