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Name:-DIVYA PRAVIN PATIL
Class:-S.E Computer
Roll No:-45
Batch:-B2
Experiment No:-4
Title:- Multiplication Program ,using Near Procedure.
Aim:-8086 Assembly language Program for Multiplicatin of two 8-
bit HEX numbers using NEAR Procedure.

DATA SEGMENT
            NO1 DB 67H
            NO2 DB 45H
            HEX_CHART DB '0123456789ABCDEF'
            LSB_OF_RESULT DB ?
            MSB_OF_RESULT 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
            MOV BH,NO2
            MUL BH

            MOV MSB_OF_RESULT,AH
            MOV LSB_OF_RESULT,AL

            MOV AL,MSB_OF_RESULT
            AND AL,0F0H
            MOV CL,04H
            ROR AL,CL
            CALL DISP_CHAR

            MOV AL,MSB_OF_RESULT
            AND AL,0FH
            CALL DISP_CHAR

            MOV AL,LSB_OF_RESULT
            AND AL,0F0H
            MOV CL,04H
            ROR AL,CL
            CALL DISP_CHAR
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                MOV AL,LSB_OF_RESULT
                AND AL,0FH
                CALL DISP_CHAR

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

                JMP LAST

DISP_CHAR PROC NEAR
                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 :-1BC3H
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