Cube of a number using 8051

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Aim: To write assembly program to do Cube of a number using 8051.

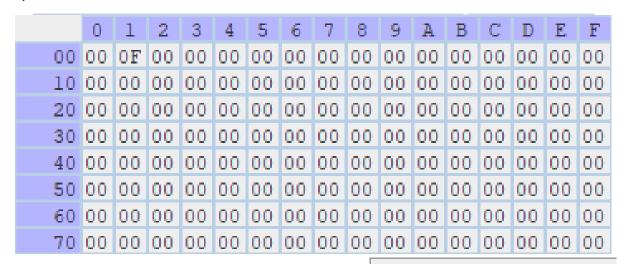
Program:

Exp No: 13

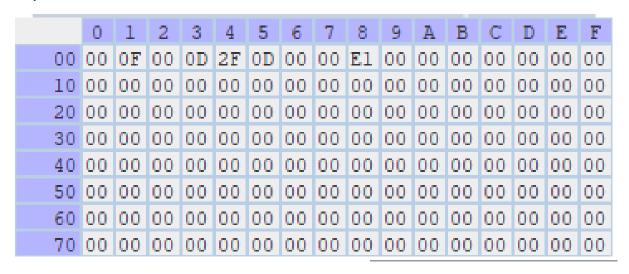
rogram	Comments
MOV R0, #00	Transferring the data 00 to R0
MOV R2, #00	Transferring the data 00 to R2
MOV R3, #00	Transferring the data 00 to R3
MOV R4, #00	Transferring the data 00 to R4
MOV A, r1	Transferring the input data from r1 to A
MOV B, r1	Transferring the input data from r1 to B
MUL AB	A X B = BA
MOV r7, B	Transferring the data from B to r7
MOV 08, A	Transferring the data A to 08
MOV B, r1	Transferring the data B to R1
MUL AB	A X B = BA
MOV r4, A	Transferring the data A to r4
MOV r5, B	Transferring the data B to R5
MOV A, r7	Transferring the data r7 to A
MOV B, r1	Transferring the data r1 to B
MUL AB	A X B = BA
MOV r2, A	Transferring the data A to R2
MOV r6, B	Transferring the data B to R6
MOV A, r5	Transferring the data r5 to A
ADD A, r6	Transferring the data r6 to A A=r6+A

MOV r3, A	Transferring the data A to r3
HERE: SJMP HERE	Infinite loop

Input 1:



Output 1:



Explanation: F*F*F=0D2F

Result:

Thus, the assembly program for Cube of a number is written and executed.