

Cube of a number using 8051

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Aim:

To write and execute 8051 ALP for finding the cube of a number.

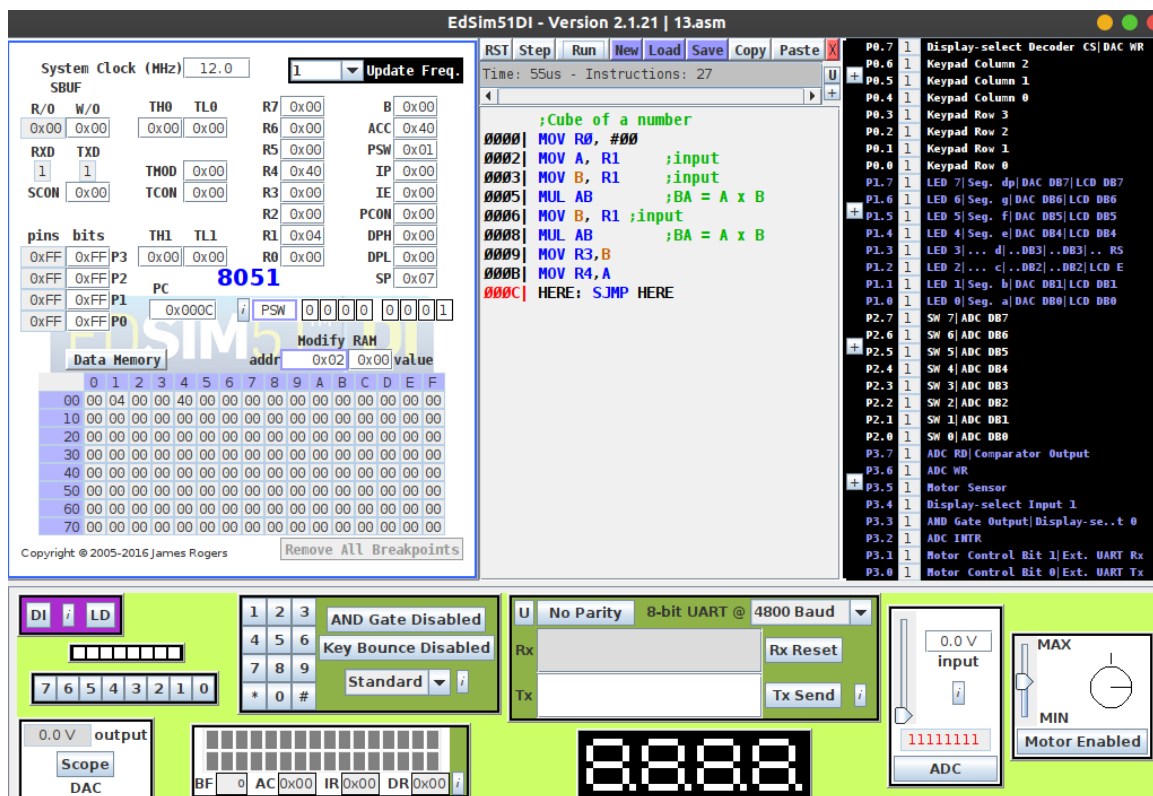
Algorithm:

- * Initialise R0 with 00h.
- * Move the value at R1 into A using MOV.
- * Move the value at R1 into B using MOV.
- * Multiply A and B using MUL.
- * Move the value at R1 into B.
- * Multiply A and B using MUL.
- * Move the LSB of cube into R3.
- * Move the MSB of cube into R4.

Program:

Program	Comments
MOV R0, 00	Initialise R0 with 00
MOV A, r1	input
MOV B, R1	input
MUL AB	BA = A x B
MOV B, R1	
MUL AB	cubing the number
MOV R3,B	Moving LSB into R3
MOV R4,A	Moving MSB into R4
HERE: SJMP HERE	End program

Sample Output:



Result:

8051 ASL programs for finding cube of a number has been executed successfully.