**Ex. No.: 8 Basic Arithmetic Operations in Embedded C**

**Date:**

**Aim:**

To write a basic and arithmetic program to perform addition, subtraction, multiplication, division of 8 bit numbers in Embedded C using MCU IDE.

**Software Requirement**

1. MCU 8051 IDE
2. SDCC

**Procedure**

//Write the procedure here

**Code**

#include <8052.h> /\* Use the appropriate header file for your hardware \*/

void main(void)

{

unsigned char x, y, z, a, b, c, d, e, f, p, q, r;

x = 0x12;

y = 0x34;

P0 = 0x00;

z = x + y;

P0 = z;

a = 0x12;

b = 0x34;

P1 = 0x00;

c = b - a;

P1 = c;

d = 0x12;

e = 0x34;

P2 = 0x00;

f = e \* d;

P2 = f;

p = 0x12;

q = 0x34;

P3 = 0x00;

r = q / p;

P3 = r;

}

**Execution Steps**

1. Open Tools 🡪 Compile
2. Start Simulator
3. Animate Program
4. Check the C Variables
5. Check the List of SFR’s

**Output**



