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1 //Write a program to add 0xEF with 0xAA and 0x55. The result is to be stored in 40h,41h internal
  location and the carry is to be stored in register 42h. Find the square of the result of addition.
2 //TILAK POOJARY
3 //NNM24EE127
4 //TASK 1B
5
6 #include<reg51.h>
7 #include<math.h>
8 unsigned char idata *internalmemory=0x40,*R4=0x42;
9 unsigned char a=0xEF,b=0xAA,c=0x55,square1,square2,total_square,sum1,sum2,total;
10
11 void main(void)
12 {
13     sum1=a+b;
14     sum2=a+c;
15     *internalmemory=sum1;
16     *internalmemory++;
17     *internalmemory=sum2;
18     total=sum1+sum2;
19     *R4=PSW>>7;
20     square1=sqrt(sum1);
21     square2=sqrt(sum2);
22     total_square=sqrt(total);
23     P1=0x00;
24     P2=0x00;
25     P3=0x00;
26     P1=square1;
27     P2=square2;
28     P3=total_square;
29 }
```