

```
1 //Write a program to subtract two 16 bit numbers. Place the result in 30h and 31h register such that
  31h should contain MSB and 30h should contain LSB. Store the carry in register 32h.
2 //TILAK POOJARY
3 //NNM24EE127
4 //TASK 1C
5
6 #include<reg51.h>
7 unsigned char idata *R4=0x30;
8 unsigned int a=0x58FC,b=0xDCBA,diff;
9 void main(void)
10 {
11     P1=0x00;
12     P2=0x00;
13     P3=0x00;
14     diff=a-b;
15     *R4=diff&0x00FF;
16     P1=*R4;
17     *R4++;
18     *R4=(diff&0xFF00)>>8;
19     P2=*R4;
20     *R4++;
21     *R4=PSW>>7;
22     P3=*R4;
23 }
```