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1 //Write a program to add two 16 bit numbers. Place the sum in internal memory 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 1A
5
6 #include<reg51.h>
7 unsigned char idata *internalmemory=0x30, *R4=0x32;
8 unsigned int a,b,sum;
9
10 void main(void)
11 {
12     P1=0x00;
13     P2=0x00;
14     a=0x5823;
15     b=0x72FC;
16     sum=a+b;
17     *internalmemory=sum&0x00FF;
18     *internalmemory++;
19     *internalmemory=(sum&0xFF00)>>8;
20     *R4=PSW>>7;
21     P1=sum;
22     P2=sum>>8;
23     P3=0x00;
24     P3=*R4;
25 }
```