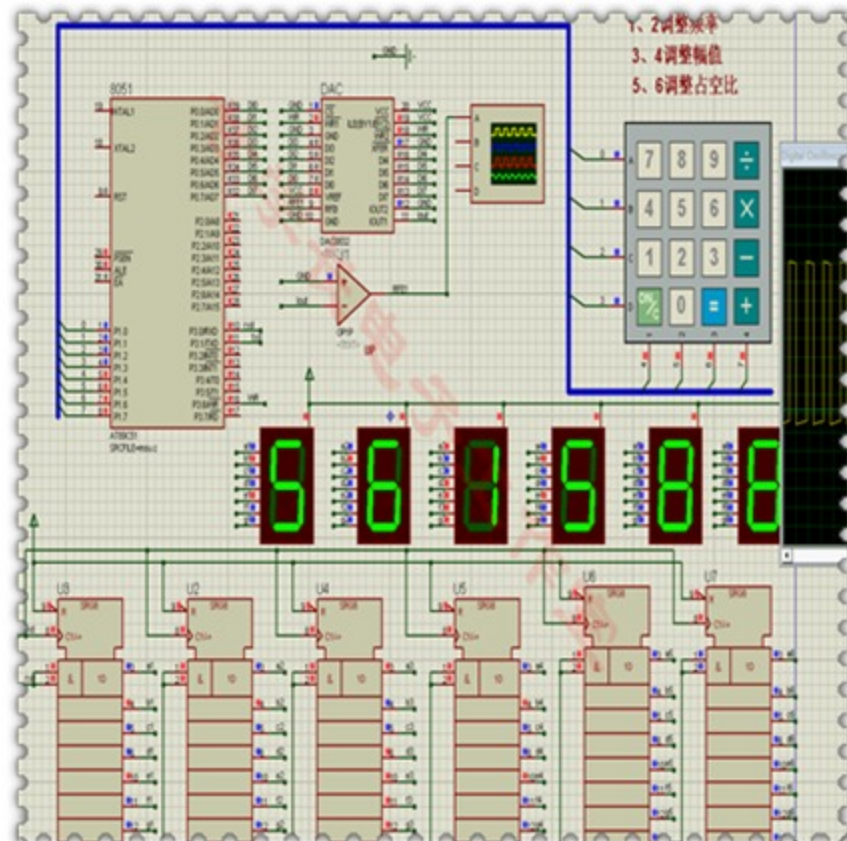




```

1  #include<math.h>
2  #include<reg52.h>
3  #include"output_type_select.h"
4
5  //输出波形数据
6  static uchar output_data[MAX_ARRAY_LENGTH];
7  //当前的输出波形类型
8  static enum output_type current_type=sine;
9  //方波占空比
10 static float square_factor=0.5;
11 //当前波形幅值
12 static uchar current_mag=255;
13
14 static void write_sine(uchar mag){
15     uchar i=0;
16     float temp=0;
17     TR0=0;
18     for(i=0;i<MAX_ARRAY_LENGTH;i++){
19         temp=sin(2*3.14/MAX_ARRAY_LENGTH*i);
20         output_data[i]=(uchar)(temp*mag/2+mag/2);
21     }
22     TR0=1;
23 }
24
25 static void write_square(uchar mag){
26     uchar i=0;
27     TR0=0;
28     for(i=0;i<MAX_ARRAY_LENGTH;i++){
29         output_data[i]=mag*(i>(MAX_ARRAY_LENGTH*square_factor));
30     }
31     TR0=1;
32 }

```

