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//2016.12.12

int latch=9; //74HC595 pin 9 STCP

int clock=10; //74HC595 pin 10 SHCP

int data=8; //74HC595 pin 8 DS

unsigned char table[]=

{0x3f,0x06,0x5b,0x4f,0x66,0x6d,0x7d,0x07,0x7f,0x6f,0x77,0x7c

,0x39,0x5e,0x79,0x71,0x00};

void setup() {

pinMode(latch,OUTPUT);

pinMode(clock,OUTPUT);

pinMode(data,OUTPUT);

}

void Display(unsigned char num)

{

digitalWrite(latch,LOW);

shiftOut(data,clock,MSBFIRST,table[num]);

digitalWrite(latch,HIGH);

}

void loop() {

Display(1);

delay(500);

Display(2);

delay(500);

Display(3);

delay(500);

Display(4);

delay(500);

Display(5);

delay(500);

Display(6);

delay(500);

Display(7);

delay(500);

Display(8);

delay(500);

Display(9);

delay(500);

Display(10);

delay(500);

Display(11);

delay(500);

Display(12);

delay(500);

Display(13);

delay(500);

Display(14);

delay(500);

Display(15);

delay(500);

}