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/*
Example 5.2
Using a 7-segment display with the 74HC595 shift register
CC by-sa 3.0
http://tronixstuff.wordpress.com
*/

int latchpin = 8; // connect to pin 12 on the '595
int clockpin = 12; // connect to pin 11 on the '595
int datapin = 11; // connect to pin 14 on the '595

int segdisp[10] = {63,6,91,79,102,109,125,7,127,111 };

void setup()
{
  pinMode(latchpin, OUTPUT);
  pinMode(clockpin, OUTPUT);
  pinMode(datapin, OUTPUT);
}
void loop()
{
  digitalWrite(latchpin, LOW);
  shiftOut(datapin, clockpin, MSBFIRST, 0); // clears the display
  digitalWrite(latchpin, HIGH);
  delay(1000);

  for (int loopy=0; loopy<10; loopy++)
  // counts from 0 to 9, using the values in the array segdisp[]
  // whose values correspond to the binary outputs 0~9
  {
    digitalWrite(latchpin, LOW);
    shiftOut(datapin, clockpin, MSBFIRST, segdisp[loopy]);
    digitalWrite(latchpin, HIGH);
    delay(200);
  }

  digitalWrite(latchpin, LOW);
  shiftOut(datapin, clockpin, MSBFIRST, 0); // clear the display
  digitalWrite(latchpin, HIGH);
  delay(1000);

  for (int loopy=9; loopy>-1; loopy--)
  {
    digitalWrite(latchpin, LOW);
    shiftOut(datapin, clockpin, MSBFIRST, segdisp[loopy]);
    digitalWrite(latchpin, HIGH);
    delay(200);
  }

  digitalWrite(latchpin, LOW);
  shiftOut(datapin, clockpin, MSBFIRST, 0); // clear the display
  digitalWrite(latchpin, HIGH);
  delay(1000);

  digitalWrite(latchpin, LOW);
  shiftOut(datapin, clockpin, MSBFIRST, 128); // light the decimal point
  digitalWrite(latchpin, HIGH);
  delay(1000);

  digitalWrite(latchpin, LOW); // clear the display
  shiftOut(datapin, clockpin, MSBFIRST, 0);
  digitalWrite(latchpin, HIGH);
  delay(1000);

  digitalWrite(latchpin, LOW);
  shiftOut(datapin, clockpin, MSBFIRST, 255); // light up all segments
  digitalWrite(latchpin, HIGH);
  delay(1000);
}
```

```
digitalWrite(latchpin, LOW);  
shiftOut(datapin, clockpin, MSBFIRST, 0); // clear the display  
digitalWrite(latchpin, HIGH);  
delay(1000);  
}
```