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//for use with Techspace Learning Shift Register module.
//Displays 0 - 99 on two 7-seg displays using bytes and bitreading.
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int dataIn = 4;
int klock = 7;
int latch = 6;
int bitNum = 0;
int decNum = 0;
int units;
int tens;

byte numerals[] {           //bitreading will start on the right
  B01111110, //ZERO       //so the segments run "na,a,b,c,d,e,f,g"
  B00110000, //ONE
  B01101101, //TWO
  B01111001, //THREE
  B00110011, //FOUR
  B01011011, //FIVE
  B01011111, //SIX
  B01110000, //SEVEN
  B01111111, //EIGHT
  B01111011, //NINE
};

void setup() {
  pinMode(dataIn,OUTPUT);
  pinMode(klock,OUTPUT);
  pinMode(latch,OUTPUT);
}

void Klocking(){
  digitalWrite(klock,1);
  digitalWrite(klock,0);
}

void Latch(){
  digitalWrite(latch,1);
  digitalWrite(latch,0);
}

void loop() {
  tens = decNum/10;
  units = decNum%10; //Using modulo to find remainder.

  for(bitNum = 0;bitNum < 8;bitNum++){
    digitalWrite(dataIn,bitRead(numerals[tens],bitNum));
    Klocking();
  }
  for(bitNum = 0;bitNum < 8;bitNum++){
    digitalWrite(dataIn,bitRead(numerals[units],bitNum));
    Klocking();
  }
  Latch();
  delay(500);
  decNum++;
  if(decNum > 99){
    decNum = 0;
  }
}
```

