

```

//for use with Techspace Learning Shift Register module.

//Displays 0 - 99 on two 7-seg displays.

int dataIn = 4;
int latch = 5;
int klock = 6;
int Number = 0;
int Numeral;
int units;
int tens;

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

void Hi() {
  digitalWrite(dataIn,1);
  digitalWrite(klock,1);
  digitalWrite(klock,0);
}

void Lo() {
  digitalWrite(dataIn,0);
  digitalWrite(klock,1);
  digitalWrite(klock,0);
}

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

//segG, segF, segE, segD, segC, segB, segA, n/a
void ZERO() {Lo();Hi();Hi();Hi();Hi();Hi();Hi();Lo();}
void ONE() {Lo();Lo();Lo();Lo();Hi();Hi();Lo();Lo();}
void TWO() {Hi();Lo();Hi();Hi();Lo();Hi();Hi();Lo();}
void THREE() {Hi();Lo();Lo();Hi();Hi();Hi();Hi();Lo();}
void FOUR() {Hi();Hi();Lo();Lo();Hi();Hi();Lo();Lo();}
void FIVE() {Hi();Hi();Lo();Hi();Hi();Lo();Hi();Lo();}
void SIX() {Hi();Hi();Hi();Hi();Hi();Lo();Hi();Lo();}
void SEVEN() {Lo();Lo();Lo();Lo();Hi();Hi();Hi();Lo();}
void EIGHT() {Hi();Hi();Hi();Hi();Hi();Hi();Hi();Lo();}
void NINE() {Hi();Hi();Lo();Hi();Hi();Hi();Hi();Lo();}

void selection() {
  if(Numeral == 0) {ZERO();}
  if(Numeral == 1) {ONE();}
  if(Numeral == 2) {TWO();}
  if(Numeral == 3) {THREE();}
  if(Numeral == 4) {FOUR();}
  if(Numeral == 5) {FIVE();}
  if(Numeral == 6) {SIX();}
  if(Numeral == 7) {SEVEN();}
  if(Numeral == 8) {EIGHT();}
  if(Numeral == 9) {NINE();}
}

void loop() {
  tens = Number/10;
  units = Number%10;
  Numeral = units;
  selection();
  Numeral = tens;
  selection();
  Latch();
  delay(500);
  Number++;
  if(Number > 99) {
    Number = 0;
  }
}

```

