

Array_3 28/02/21

```
//Arrays used for 7-seg display, 0-9 in one second steps
```

```
int LED1 = 2;    // to segA
int LED2 = 3;    // to segB
int LED3 = 4;    // to segC
int LED4 = 5;    // to segD
int LED5 = 6;    // to segE
int LED6 = 7;    // to segF
int LED7 = 8;    // to segG
int arrayCount = 0;
    //segA, segB, segC, segD, segE, segF, segG,
int ZERO[] { 1, 1, 1, 1, 1, 1, 0 };
int ONE[] { 0, 1, 1, 0, 0, 0, 0 };
int TWO[] { 1, 1, 0, 1, 1, 0, 1 };
int THREE[] { 1, 1, 1, 1, 0, 0, 1 };
int FOUR[] { 0, 1, 1, 0, 0, 1, 1 };
int FIVE[] { 1, 0, 1, 1, 0, 1, 1 };
int SIX[] { 1, 0, 1, 1, 1, 1, 1 };
int SEVEN[] { 1, 1, 1, 0, 0, 1, 0 };
int EIGHT[] { 1, 1, 1, 1, 1, 1, 1 };
int NINE[] { 1, 1, 1, 1, 0, 1, 1 };
int LEDS[] {LED1, LED2, LED3, LED4, LED5, LED6, LED7};
```

```
void setup() {
  pinMode(LED1, OUTPUT);
  pinMode(LED2, OUTPUT);
  pinMode(LED3, OUTPUT);
  pinMode(LED4, OUTPUT);
  pinMode(LED5, OUTPUT);
  pinMode(LED6, OUTPUT);
  pinMode(LED7, OUTPUT);
}
```

```
void loop() {
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], ZERO[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], ONE[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], TWO[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], THREE[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], FOUR[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], FIVE[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], SIX[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], SEVEN[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], EIGHT[arrayCount]);
    delay(1000);
  }
  for(arrayCount = 0; arrayCount < 7; arrayCount++) {
    digitalWrite(LEDS[arrayCount], NINE[arrayCount]);
    delay(1000);
  }
}
```

