

## Výukový multishield – tlačidla 4

```
const byte LED[] = {13,12,11,10};
#define BUTTON1 A1
#define BUTTON2 A2
#define BUTTON3 A3
void setup(){
  pinMode(LED[0], OUTPUT);
  pinMode(LED[1], OUTPUT);
  pinMode(LED[2], OUTPUT);
  pinMode(LED[3], OUTPUT);
}
void loop(){
  if(!digitalRead(BUTTON1)){
    digitalWrite(LED[0], HIGH);
    digitalWrite(LED[1], HIGH);
    digitalWrite(LED[2], HIGH);
    digitalWrite(LED[3], HIGH);
  }
  if(!digitalRead(BUTTON2)){
    digitalWrite(LED[0], LOW);
    digitalWrite(LED[1], LOW);
    digitalWrite(LED[2], LOW);
    digitalWrite(LED[3], LOW);
  }
  if(!digitalRead(BUTTON3)){
    for(int j=0; j<10;j++)
    {
      for(int i=0; i<4;i++)
      {
        digitalWrite(LED[i], HIGH);
        delay(75);
        digitalWrite(LED[i], LOW);
      }
      for(int i=4; i>0;i--)
      {
        digitalWrite(LED[i], HIGH);
        delay(75);
        digitalWrite(LED[i], LOW);
      }
    }
  }
}
```