

Mapovanie polohy potenciometra 2

```
int potPin = A0; // potentiometer is connected to analog 0 pin
int led1 = 8; // red LED connected to digital PIN 13
int led2 = 9; // red LED connected to digital PIN 12
int led3 = 10;
int led4 = 11;
int potValue; // variable used to store the value coming from the sensor
int percent; // variable used to store the percentage value

void setup() {
  pinMode(led1, OUTPUT); // LED is declared as an output
  pinMode(led2, OUTPUT);
  pinMode(led3, OUTPUT);
  pinMode(led4, OUTPUT);
}

void loop() {
  potValue = analogRead(potPin); // read the value from the potentiometer and assign the name
  potValue
  percent = map(potValue, 0, 1023, 0, 100); // convert potentiometer reading to a percentage
  if (percent <= 5) { //if the percentage is less than 5%...
    digitalWrite(led1, LOW);
    digitalWrite(led2, LOW);
    digitalWrite(led3, LOW);
    digitalWrite(led4, LOW);
  }
  else if(percent > 5 && percent <= 25){
    digitalWrite(led1, HIGH);
    digitalWrite(led2, LOW);
    digitalWrite(led3, LOW);
    digitalWrite(led4, LOW);
  }
  else if(percent > 25 && percent <= 50){
    digitalWrite(led1, HIGH);
    digitalWrite(led2, HIGH);
    digitalWrite(led3, LOW);
    digitalWrite(led4, LOW);
  }
  else if(percent > 50 && percent <=75){
    digitalWrite(led1, HIGH);
    digitalWrite(led2, HIGH);
    digitalWrite(led3, HIGH);
    digitalWrite(led4, LOW);
  }else {
    digitalWrite(led1, HIGH);
    digitalWrite(led2, HIGH);
    digitalWrite(led3, HIGH);
    digitalWrite(led4, HIGH);
  }
}
```

