

## Código Fonte – Fase 1

```
#define LED1 3
#define LED2 4
#define LED3 5
#define LED4 6
#define POT A5
//Variaveis
int valorPot = 0;
void setup() {
    // put your setup code here, to run once:
    pinMode(POT, INPUT);
    pinMode(LED1, OUTPUT);
    pinMode(LED2, OUTPUT);
    pinMode(LED3, OUTPUT);
    pinMode(LED4, OUTPUT);
}
void loop() {
    //Lê valor do potenciometro
    valorPot = analogRead(POT);
    //Controla LED 1
    if(valorPot > 255){
        digitalWrite(LED1, HIGH);
    } else{
        digitalWrite(LED1, LOW);
    }
    //Controla LED 2
    if(valorPot > 512){
        digitalWrite(LED2, HIGH);
    } else{
        digitalWrite(LED2, LOW);
    }
    //Controla LED 3
    if(valorPot > 768){
        digitalWrite(LED3, HIGH);
    } else{
        digitalWrite(LED3, LOW);
    }
    //Controla LED 4
    if(valorPot > 1000){
        digitalWrite(LED4, HIGH);
    } else{
        digitalWrite(LED4, LOW);
    }
}
```