

```
int LDR = A1; //Pin selected on the breadboard that takes a 5V input
float Vo; //Voltage between LDR and resistor
float R1 = 1000; //Resistance of resistor
float R2; //Resistance of LDR

void setup() {
  Serial.begin(9600);
}

void loop() {
  Vo = analogRead(LDR); //Takes the input from the pin we select on the
  breadboard
  R2 = R1 * (1023.0 / (float)Vo - 1.0); //Calculates the resistance of
  the LDR as light changes
  Serial.print("Resistance: ");
  Serial.print(R2); //Prints resistance of LDR
  Serial.println(" ohms");
  delay(500);
}
```