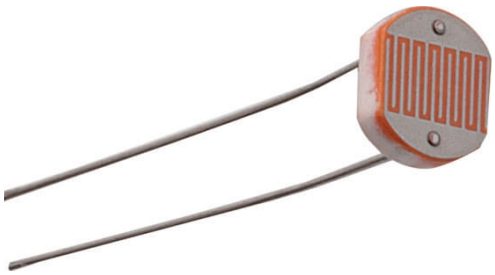
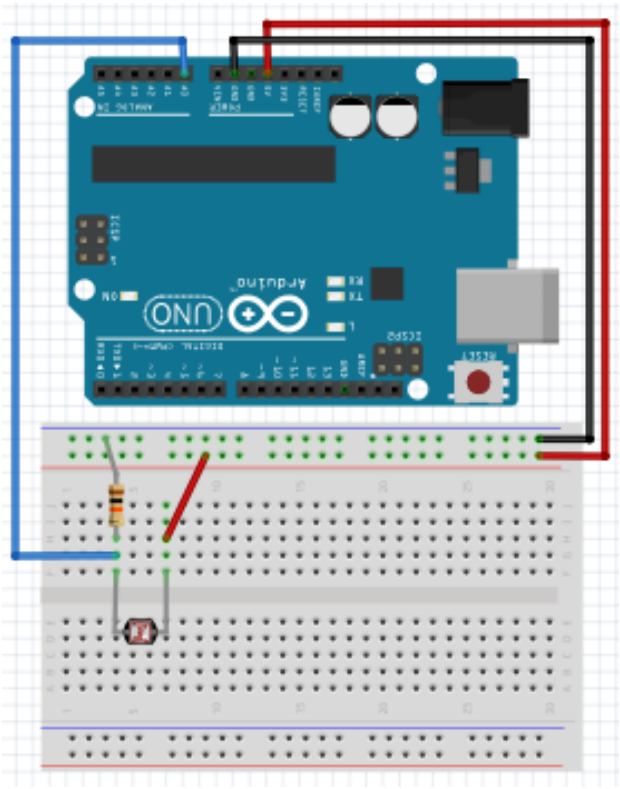


LDR(Light Dependent Resistor) is a type of Resistor that can change its resistance value when the brightness that it is exposed to, changes.

When there is less light, LDR resistance will become higher
When there is more light, LDR resistance will become lower

STEMKRAF - TUTORIAL PARTS
https://github.com/teaksoon/stemkraf

```
Program: tp05A_LDR_raw
  (1/2): LDR raw readings
       :
       : by TeakSoon Ding for STEMKRAF (OCT-2021)
```



Hardware:
1x Arduino Uno
1x Solderless Breadboard

Jumper wires

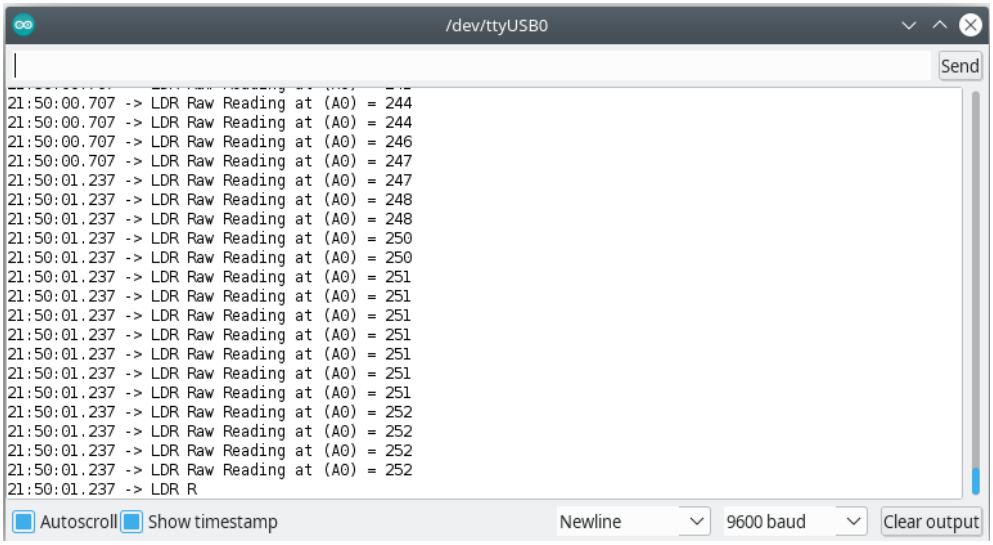
1x LDR
1x Resistor 10Kohm

STEMKRAF - TUTORIAL PARTS
https://github.com/teaksoon/stemkraf

```
Program: tp05A_LDR_raw
  (2/2): LDR raw readings
       :
       : by TeakSoon Ding for STEMKRAF (OCT-2021)
```

```
// Program: tp05A_LDR_raw
//        : LDR raw readings
//        :
//        : by TeakSoon Ding for STEMKRAF ( OCT-2021 )
// ------------------------------------------------
void setup() {
  pinMode(A0, INPUT);
  Serial.begin(9600);
}
void loop() {
  Serial.print("\nanalogRead(A0) = "); Serial.print(analogRead(A0));
}
```

- Upload this program with the Arduino IDE Software
- Open up the Serial Monitor from the Arduino IDE Software
- See the LDR readings from A0 on Serial Monitor
- Try cover the light from LDR and observe the readings



The LDR Resistance Value will change based on the different light intensity, which will effect the Voltage on the A0 pin, giving us different readings.

We use LDR on the Analog Pin because we want to get the exact Voltage to determine the different light intensity and not just ON and OFF