LDR (Light dependent resistors)

* Light dependent resistors are also known as ~~light dependent resi~~ photo resistors.

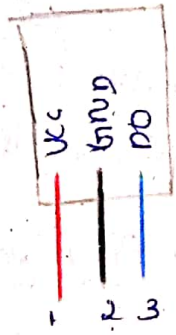
* LDR are light sensitive devices most often used to indicate the presence or absence of light. or to measure the light intensity.

Applications of LDR

* LDR are used in alarm clocks, street lights, light intensity meters, burglar alarm circuit.

* Smoke detectors, infrared astronomy, street light control circuits, camera lightmeters..

PINOUT of LDR Diagram



PIN NO	PIN NAME	DESCRIPTION
1	VCC	Power supply 5 V
2	GND	Ground PIN
3	DO	Signal output

Reading LDR sensor Data into Serial Monitor

```
int LDRsensor = 2

void setup()
{
   pinMode(LDRsensor, INPUT);
   serial.begin(9600);
}

void loop()
{
   serial.println(digitalRead(LDRsensor));
   delay(1000);
}
```

DARK & LIGHT Detector Arduino code

```
int LDRsensor = 2
void setup()
{ pinMode(LDRsensor, INPUT);
   pinMode(13, OUTPUT);
} serial.begin(9600);

void loop()
{
   int data = digitalRead(LDRsensor);
   serial.println(data);
   if (data == 0) // detects light
   {
      digitalWrite(13, HIGH)
   } else if (data == 1) // dited dark
   {
      digitalWrite(13, LOW);
   }
}
```