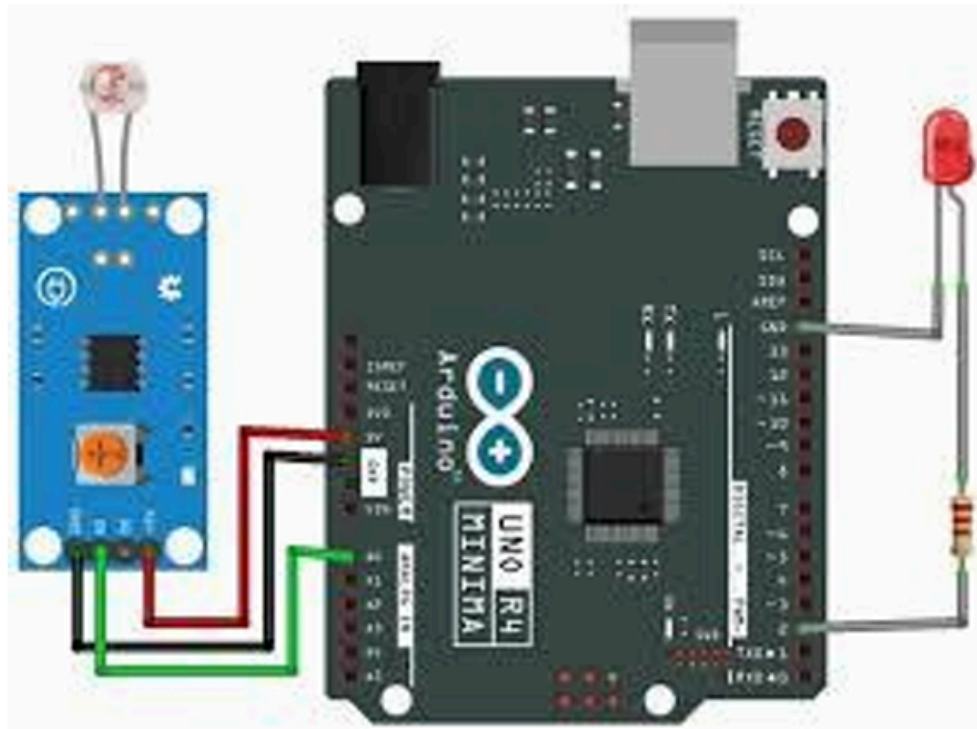


8) Detecting Darkness Using an LDR.

Materials:

- Arduino Uno board
- Breadboard
- Jumperwires
- LDR
- 10kOhmresistor
- LED(anycolor)
- 220Ohmresistor



Code:

```
int LED = 13; // Use the onboard Uno LED
int isObstaclePin = 2; // This is our input pin
int isObstacle = HIGH; // HIGH MEANS NO OBSTACLE
```

```
void setup() {
  pinMode(LED, OUTPUT);
  pinMode(isObstaclePin, INPUT);
  Serial.begin(9600);
}
```

```
void loop() {
  isObstacle = digitalRead(isObstaclePin);
  if (isObstacle == LOW)
```

```
{  
  Serial.println("OBSTACLE!!, OBSTACLE!!");  
  digitalWrite(LED, HIGH);  
}  
else  
{  
  Serial.println("clear");  
  digitalWrite(LED, LOW);  
}  
delay(200);  
}
```