

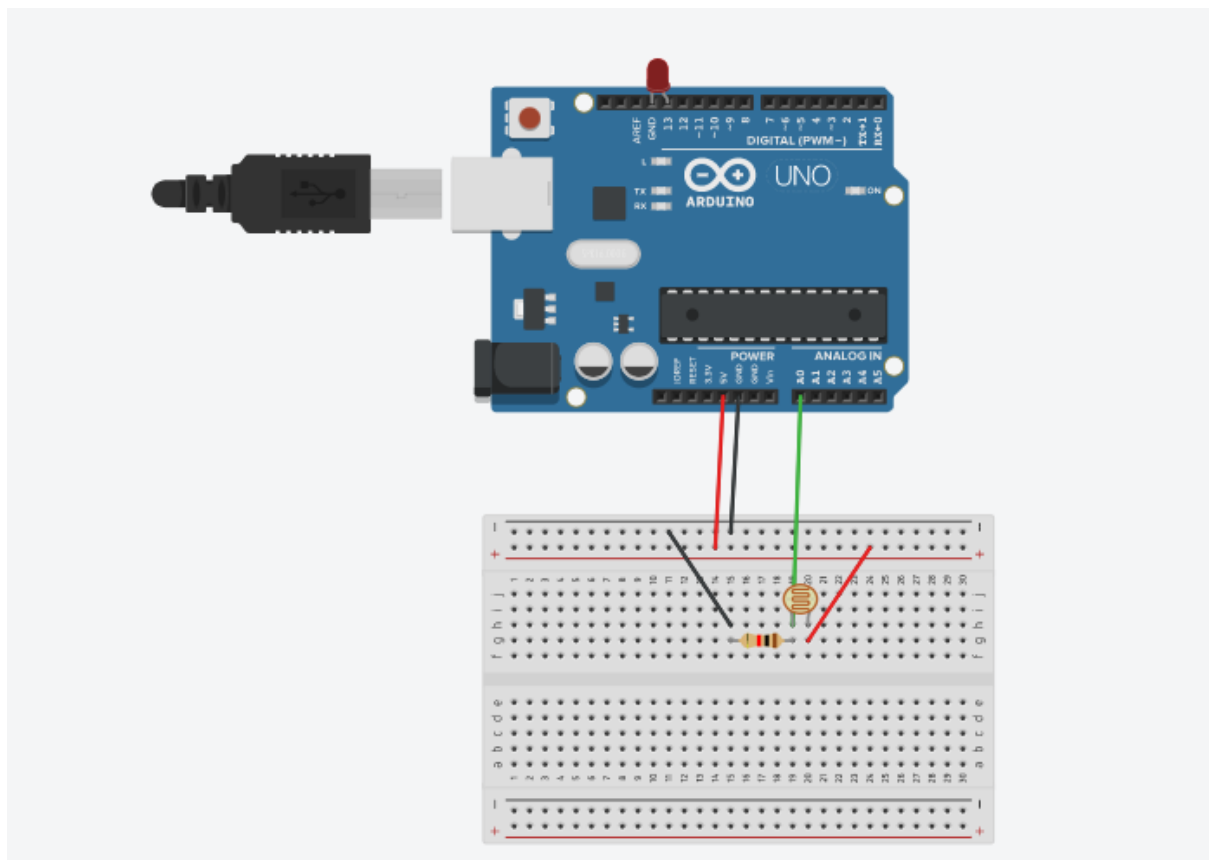
Nightlight simulator

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Aim : To switch on L.E.D when surrounding gets dark.

Circuit Diagram



Handwritten Code

Gas sensor

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```
int led_pin = 13;
int smoke_pin = A0;
float sensor_val = 0;

void setup() {
    Serial.begin(9600);
    pinMode(led_pin, OUTPUT);
}

void loop() {
    sensor_val = analogRead analogRead(smoke_pin);
    Serial.print("Sensor reading: ");
    Serial.print(sensor_val);
    if (sensor_val > 300) {
        digitalWrite digitalWrite(led_pin, HIGH);
        Serial.println("Smoke detected");
    }
    else {
        digitalWrite(led_pin, LOW);
        Serial.println("no smoke detected");
    }
    delay(500);
}
```

①

Code

Observation/Output:

The L.E.D lights up upon detection of gas leakage.