

Program no 07

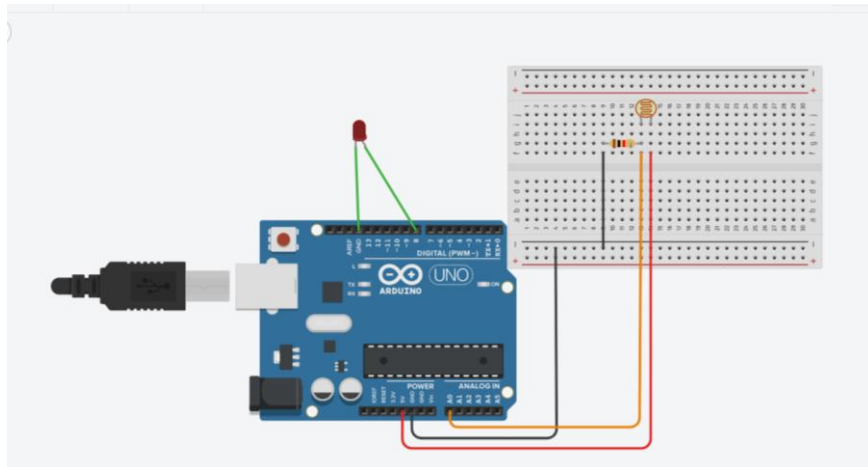
Program Title LDR or Photoresistor

Aim : To turn on LED using photoresistor

Hardware Required

- Arduino Board
- Wires
- LED
- Resistor
- Photoresistor
- Bread board

Circuit Diagram



Code:

Program-07

LDR or photoreistor.

```
const int ledPin = 8;  
const intldrPin = A0;
```

```
void setup()
```

```
{  
  Serial.begin(9600);  
  pinMode(ledPin, OUTPUT);  
  pinMode(ldrPin, INPUT);  
}
```

```
void loop()
```

```
{  
  int ldrStatus = analogRead(ldrPin);  
  if (ldrStatus <= 200){
```

```
    digitalWrite(ledPin, HIGH);  
    Serial.print("ITS DARK, Turn on  
    the LED");
```

```
    Serial.print(ldrStatus);
```

```
  }  
  else
```

```
  {  
    digitalWrite(ledPin, LOW);
```

```
    Serial.print("Its BRIGHT, Turn  
    off the LED");
```

```
    Serial.print(ldrStatus);
```

```
  }  
}
```

Pranod

Observation /Output

Photo resistor

Simulator time: 00:00:03.928

All changes saved

Code Stop Simulation Export Share

1 (Arduino Uno R3)

Photoresistor

Name 2

```
1 const int ledpin=8;
2 const int ldrpin=A0;
3
4 void setup()
5 {
6   Serial.begin(9600);
7   pinMode(ledpin, OUTPUT);
8   pinMode(ldrpin, INPUT);
9 }
10
11 void loop()
12 {
13   int ldrStatus=analogRead(ldrpin);
14   if(ldrStatus<=200)
15   {
16     digitalWrite(ledpin,HIGH);
17     Serial.println("Its Dark Turn on the LED :");
18   }
19   Serial.print(ldrStatus);
20 }
21 else
22 {
23   digitalWrite(ledpin,LOW);
24   Serial.println("Its Gright, turn off the LED");
25   Serial.println(ldrStatus);
26 }
```

Serial Monitor

649
Its Gright, turn off the LED
649
Its Gright, turn off the LED
649
Its Gright, turn off the LED
649
Its Gright, turn off th

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