Name - Parag Gattani

Program No. – 08

Program Title - LDR

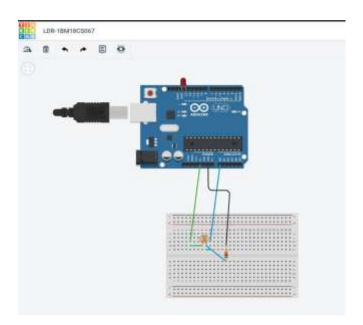
AIM

Demonstrate to show on/off of a LED using LDR night light simulation.

HARDWARES REQUIRED

- Arduino Board
- PhotoResistor
- Resistor
- LED
- Breadboard Small

CIRCUIT DIAGRAM



WRITE-UP

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CODE

```
const int ledPin = 13;
const int IdrPin = A0;
void setup()
{
      Serial.begin(9600);
      pinMode(ledPin, OUTPUT);
      pinMode(IdrPin, INPUT);
}
void loop()
{
      int IdrStatus = analogRead(IdrPin);
      Serial.println(ldrStatus);
      if(ldrStatus <=10)
     {
            digitalWrite(ledPin, HIGH);
            Serial.println("LDR is DARK, LED is ON");
```

```
}
else
{
    digitalWrite(ledPin, LOW);
    Serial.println("-----");
}
```

OUTPUT

Design a system to show on/off of a LED using LDR night light simulation.