

IOT LAB - 5th Sem

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Program No : 06

Program Title : Light Sensor

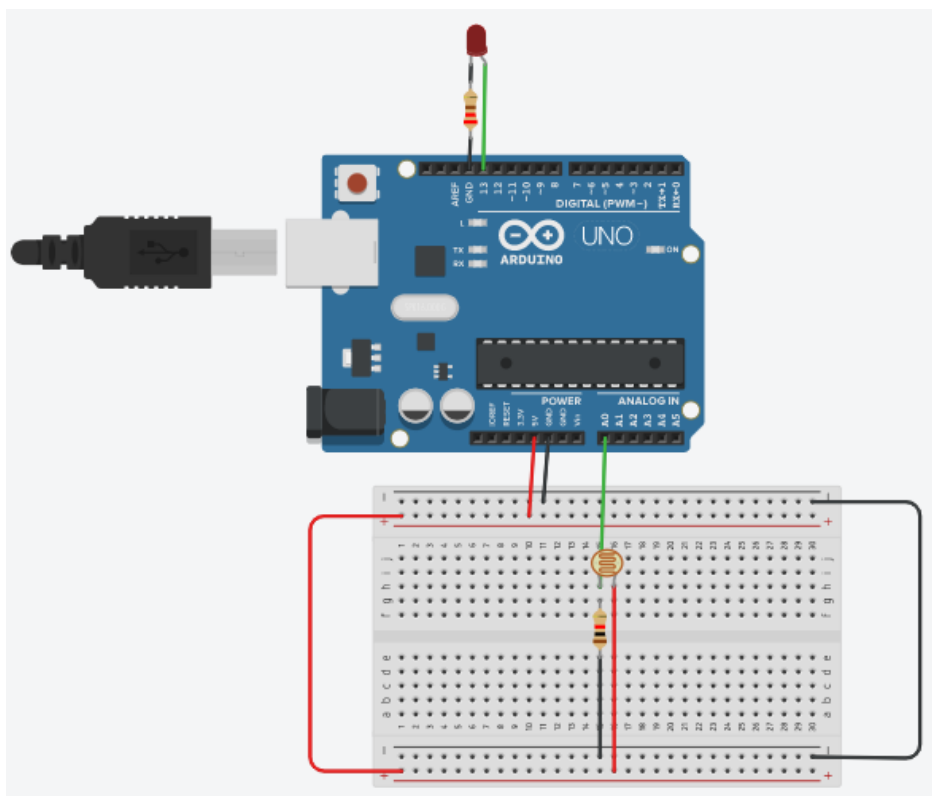
Aim :

To turn on and off an LED beyond a certain threshold using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- LDR
- LED
- 2 Resistors

Circuit Diagram :



Written Code :

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```
int ldrpin = 0;
int ldrvalue = 0;
int threshold = 500;
void setup()
{
    Serial.begin(9600);
    pinMode(13, OUTPUT);
}
void loop()
{
    ldrvalue = analogRead(ldrpin);
    Serial.print("LDR Value : ");
    Serial.println(ldrvalue);
    delay(100);
    if (ldrvalue <= threshold)
    {
        digitalWrite(13, HIGH);
    }
    else
    {
        digitalWrite(13, LOW);
    }
    delay(1000);
}
```

Observation /Output :

The LED turned off as the light increased beyond the threshold.