IOT Lab - 5th Sem

Name : Rajath MK , USN : 1BM18CS079

Program No : 05

Program Title : LDR Sensor

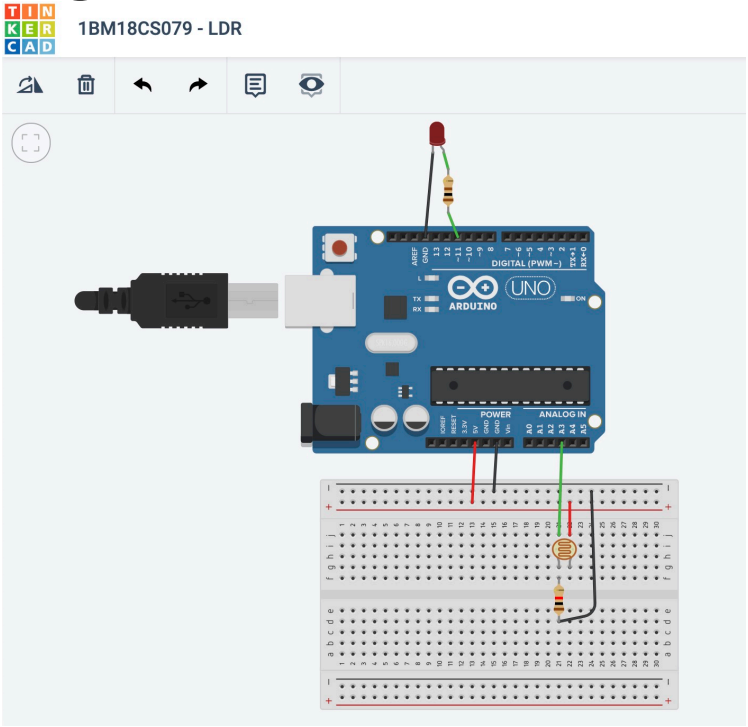
Aim :

To control the brightness of an LED bulb using an LDR Sensor.

Hardware Required :

- Arduino Uno Board
- Led Bulb
- Resistors - 100 ohm x2
- LDR Sensor
- Jump wires

Circuit Diagram:



Written Code :

Rajath.M.K
1BM18CS079

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```
int ldr = A3;
int ldrvalue = 0;
int light_s = 500

void setup()
{
    serial.begin(9600);
    pinMode(1, OUTPUT);
}
void loop() {
    ldrvalue = analogRead(ldr);
    Serial.println(ldrvalue);
    delay(50);
    if (ldrvalue < light - s){
        digital.write(1, High);
    }
    else{
        digital.write(1, LOW);
    }
delay(500)
}
```

Observation / Output :

The brightness of the LED bulb increased/decreased upon sliding between night and day in the LDR Slider .