Name –Shreya Laddha

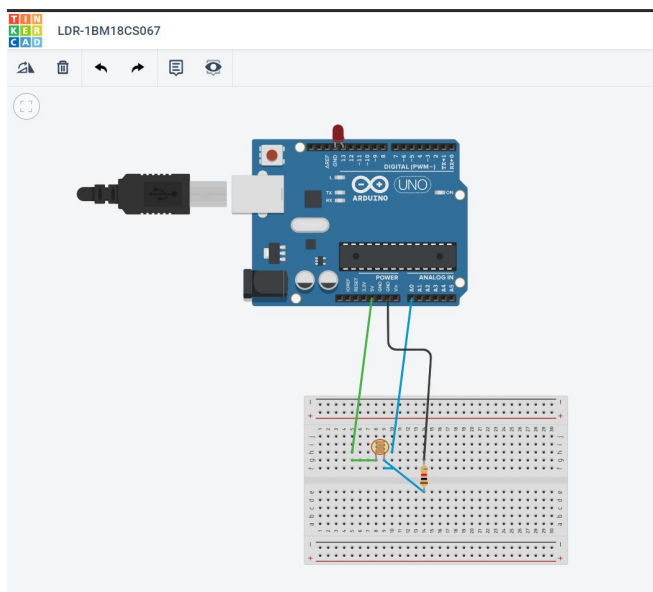Program No. – 06

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

PFA

CODE

```
const int ledPin = 13;

const int ldrPin = A0;

void setup()
{
        Serial.begin(9600);
        pinMode(ledPin, OUTPUT);
        pinMode(ldrPin, INPUT);
}
void loop()
{
        int ldrStatus = analogRead(ldrPin);
        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.