## Sakshi Srivastava

# 1BM18CS090

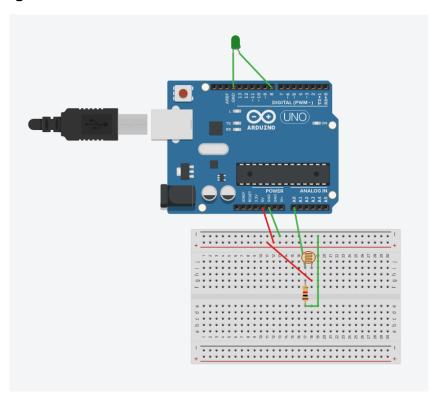
#### PROGRAM TITLE: LDR-NIGHT LIGHT SIMULATION

**Aim:** DEMONSTRATE AND SHOW ON/OFF OF A LED USING LDR-NIGHT LIGHT SIMULATION

### Hardware Required:

- Arduino Board
- LED
- Photoresistor
- Resistor
- Breadboard

#### Circuit Diagram:



## Write-Up:

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ATU: Denominate to chow onlines	of a LED wing
AIM: Demonstrate to show ON/OFF IDR-Night Light simulation	
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Hardwall Required:	
LED	
Arduino Board	
Photosesistos	
Resistor	
Breadboard	
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CODE:	
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const wit Idelan = Ab;	
roid setup()	
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pin Mode (Idhfur, INPUT);	
}	
void loop()	
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```
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if (Idustatus (=10)

digital Write (Idfini, HICH);

Sedial puintur ("LOR is DARK, LED is ON");

else

I digital Write (Idfini, 10W);

Sedial puintur ("----");
```

#### CODE:

```
const int ledPin = 8;
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/OBSERVATION:
```

LED is ON.