Experiment – 2.5

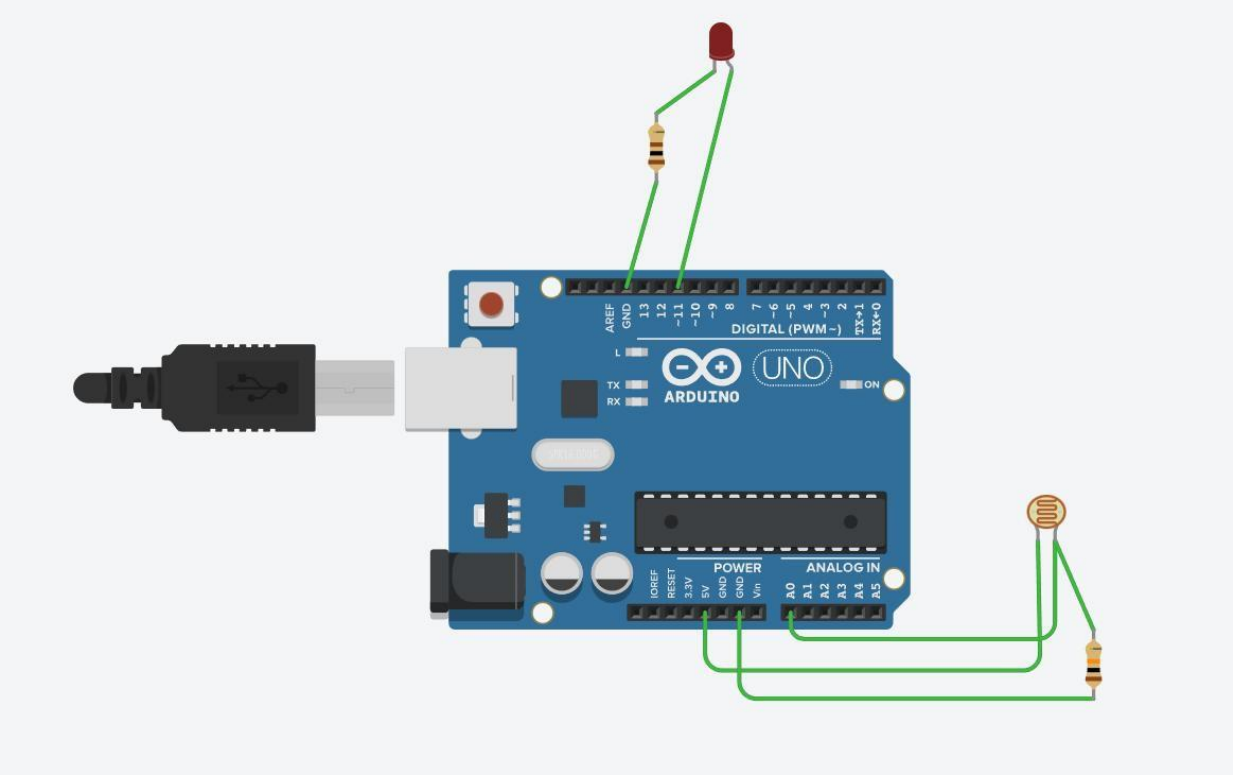
Student Name: Alasso **UID:**
Branch: **Section/Group-**
Semester: **Date of Performance:**
Subject Name: **Subject Code:**

Visit https://alasso.tech/

AIM:
Design automatic street light using LDR.

APPARATUS:
ARDUINO, LDR, Resistance 10k ohm, wires, Photo resistor.

CIRCUIT DIAGRAM:



CODE:

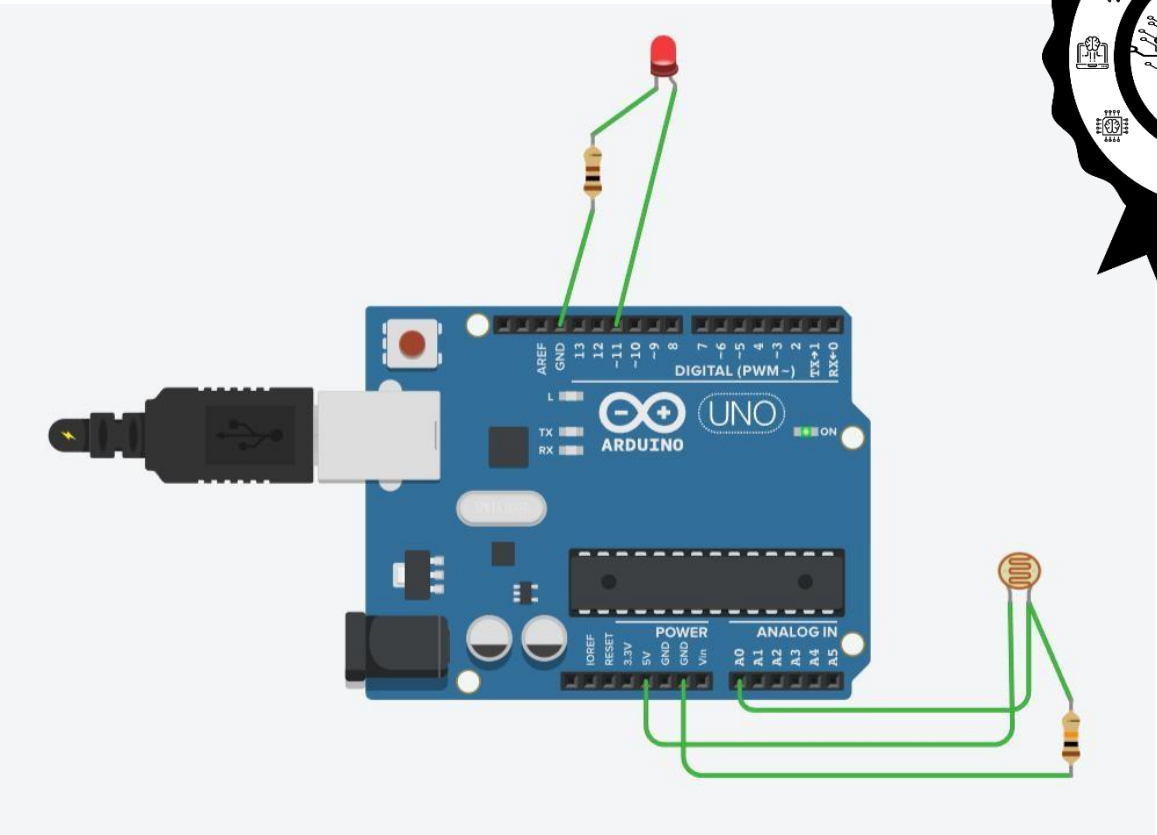
```
// C++ codeint ldr = 0; void setup()
{

pinMode(A0, INPUT); pinMode(11, OUTPUT);
}

void loop()
{

ldr = analogRead(A0);
analogWrite(11, map(ldr, 0, 1023, 180, 0));
delay(10); // Delay a little bit to improve simulation performance
}
```

OBSERVATIONS:



RESULT:

1. Designing of automatic night lamp was verified after uploading theprogram.
2. SOURCES OF ERROR:
3. Due to internal resistance of multimeter.
4. Due to interruption of power supply.
5. Due to wrong connection of circuit.

LEARNING OUTCOMES:

1. Introduction to arduino uno.
2. Circuit designing of automatic night lamp using LDR.
3. Verification of experiment.

Evaluation Grid (To be filled by Faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day)		10
2.	Post Lab Quiz Result.		5
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		5
	Signature of Faculty (with Date):	**Total Marks Obtained:**	**20**