Experiment Title.

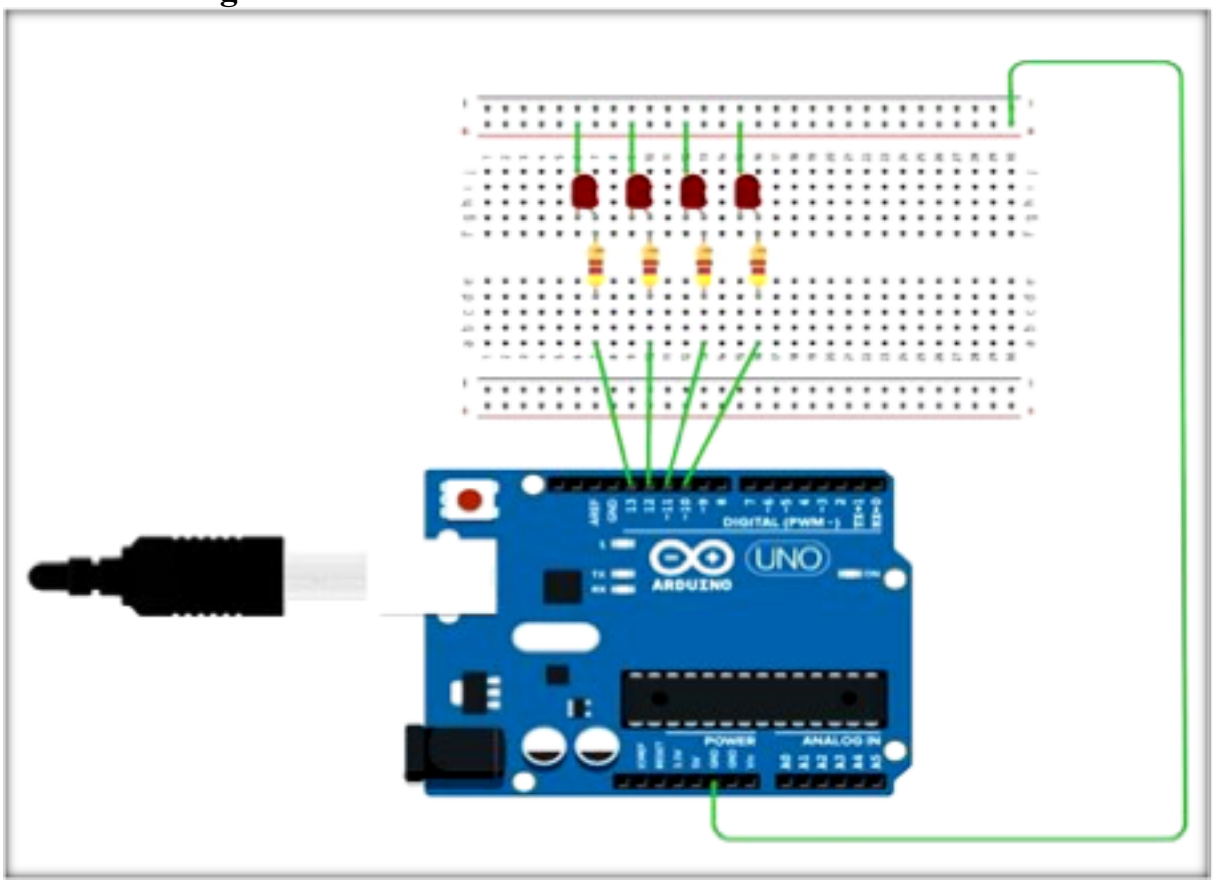
Student Name: RAJDEEP JAISWAL **UID:**20BCS2761
Branch: C.S.E B.TECH **Section/Group:** 26 (B)
Semester:2ND **Date of Performance:**15 MAY 2021
Subject Name: BEEE LAB **Subject Code:** 21E-20ELP-152_20BCS26_B

1. Aim: Design Christmas Dual LED chaser lights.

2. Apparatus:

1. **Ardunio**
2. **2 LED**
3. **3 Resistance 470 ohm**

3. Circuit Diagram:



4. Steps for experiment:

First connect the Arduino with computer and upload the program to it.

CODE IN TEXT

```
Void setup()

{
for(inti=10, i<=13, i++) {pinMode(i, OUTPUT)

}
}
void loop()
{
for(inti=10; i<14, i++){all LEDsOff();

if (i!=13){ digitalWrite(i,HIGH); digitalWrite(i+1,HIGH); delay(200);

}
elsedigitalWrite(i,HIGH); digitalWrite(i-3,HIGH); delay(200); allLEDsOff();
```

```
}}

voidallLEDsOff(void) {

for (inti = 10; i<= 14; i++) {

digitalWrite(i, LOW); }

delay(100); }
```

Make the connection with Arduino as shown above in the circuit diagram.

4. **Calculations/Theorems /Formulas used etc**

5. Due to interruption of power supply.
6. Due to internal resistance of connecting wires.

6. Observations/Discussions:

NO

7. **Percentage error (if any or applicable):**

NO

8. **Result/Output/Writing Summary:**
   Chasing of LED was verified after uploading the program.

9. **Graphs (If Any): Image /Soft copy of graph paper to be attached here**

NO

Learning outcomes (What I have learnt):

1. Understood the concept of Arduino.

2.To design the circuit using Arduino.

3.To verify the circuit by programming.

Evaluation Grid:

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:	