



## Experiment Title.

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**Branch: C.S.E B.TECH**

**Semester: 2<sup>ND</sup>**

**Subject Name: BEEE LAB**

**UID: 20BCS2761**

**Section/Group: 26 (B)**

**Date of Performance: 15 MAY 2021**

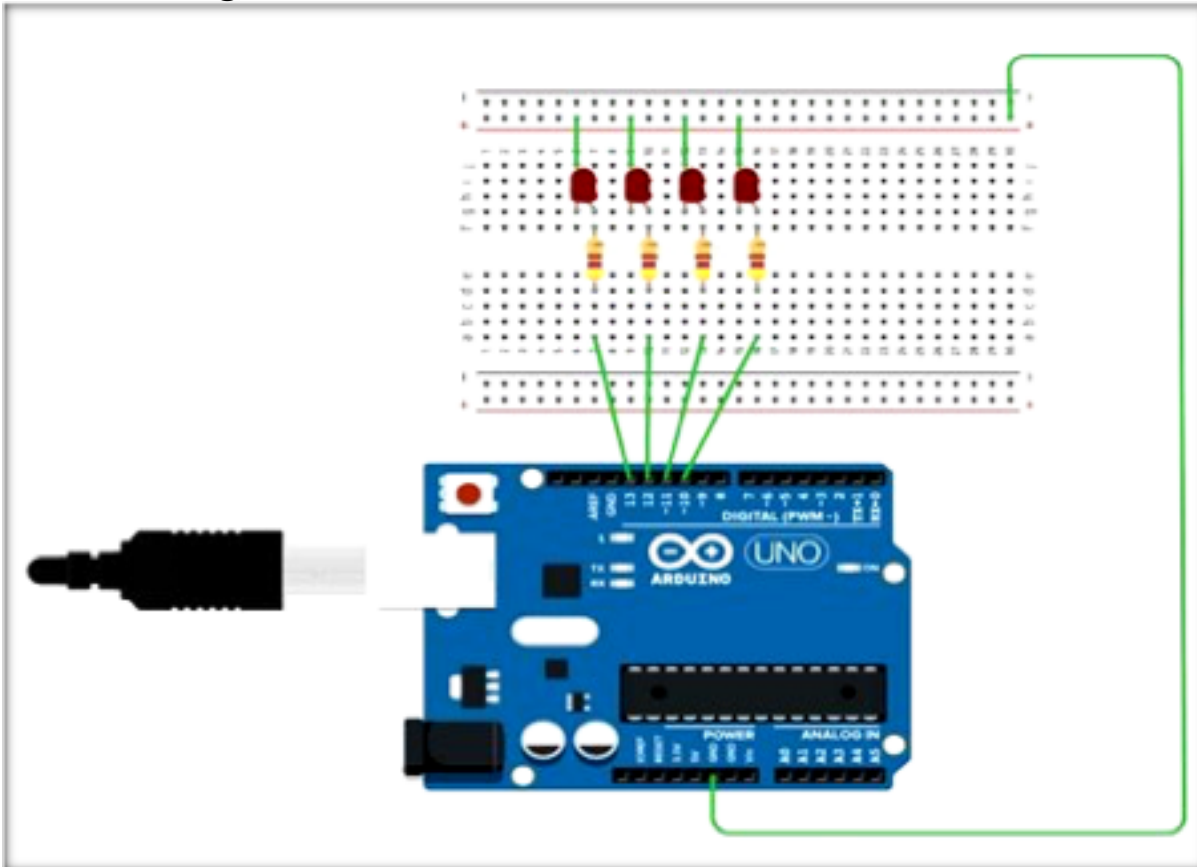
**Subject Code: 21E-20ELP-152\_20BCS26\_B**

**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();
```



}}

```
void allLEDsOff(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:	