



EXPERIMENT-6

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Branch: CSE BTECH **Section/Group:** 26 (B)

Semester: 2ND D.O.P

Subject Name: BEEE Lab

1. Aim: Design Christmas Dual LED chaser lights.

2. Apparatus:

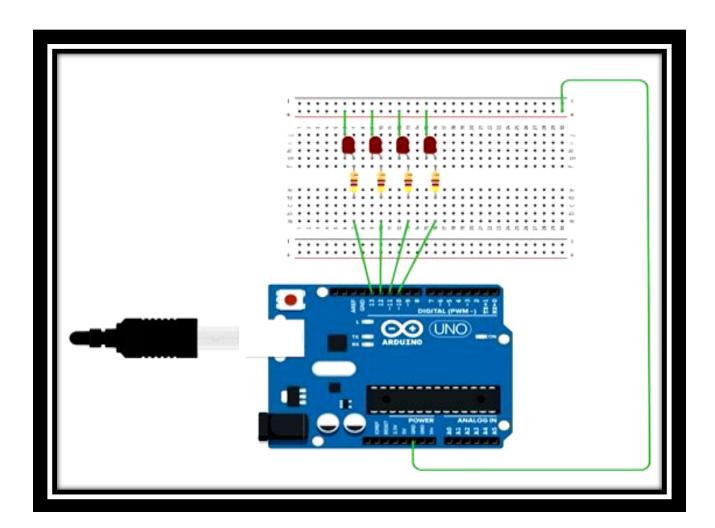
S.No	Name of the equipment
1	Ardunio
2	LED
3	Resistance 470 ohm







Circuit Diagram:







4. Steps for experiment:

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

```
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);
```



}





5. Sources of Error:

- Due to interruption of power supply.
- Due to internal resistance of connecting wires.

6. Observations/Discussions:

<u>NO</u>

7. Percentage error (if any or applicable):

<u>NO</u>

8. Result: 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.	Parameters	Marks Obtained	Maximum Marks
No.			
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:	







