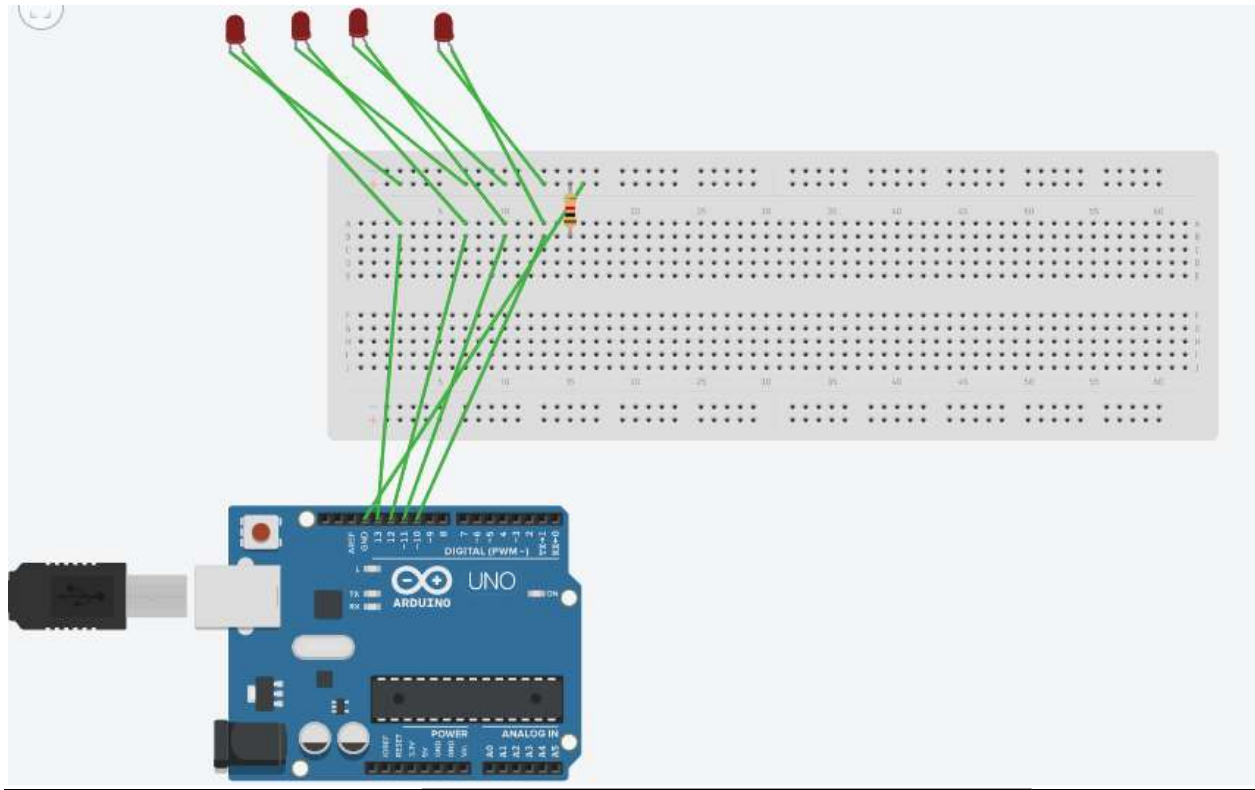


EXP-2: DESIGN CHRISTMAS DUAL LED CHASER LIGHTS

CIRCUIT DIAGRAM:



THEORY

CONCEPT USED:

1. Connection of LEDs in parallel.
2. Using multiple digital pin .
3. Concept of looping.

LEARNING AND OBSERVATIONS:

In the experiment we learned

- Breadboard and its wiring.

- Using LED and ARDUINO UNO to make different patterns.
- Coding in ARDUINO.
- Use of loop in ARDUINO UNO.

My Observations were:

- Coding syntax is similar to C language.
- LEDs blinking in a chaser pattern.

PROBLEMS AND TROUBLESHOOTING:

- Getting correct delay to get the pattern.
- Declaring all pins in the right way.

PRECAUTIONS:

- ❖ Correct port and type of board is selected under tools menu.
- ❖ Ensure that negative terminal LED is connected to the ground.
- ❖ Use a resistor to get better performance by the LED.

LEARNING OUTCOMES:

I learned to do coding in ARDUINO using loops and how to make parallel connections of LEDs . Different patterns used the same concept..