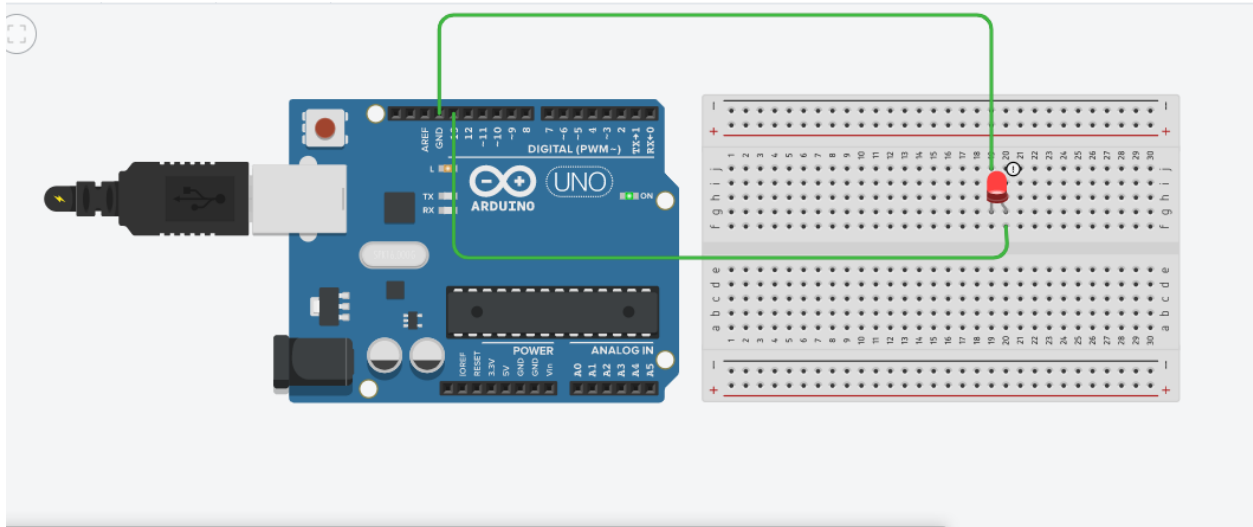


# EXPERIMENT 1

## DESIGN AN LED FLASHER

Circuit Diagram:



Theory:

**CONCEPT USED:**

- By using kirchoff's voltage law
- &
- By using kirchoff's current law

**LEARNING AND OBSERVATIONS:**

- Connections in Breadboard and wiring.
- How to control arduino and its coding.
- Use of multimeter for continuity.

## **OBSERVATION:**

- **Blinking of an LED.**
- **Relation between software and hardware.**

## **PROBLEMS & TROUBLESHOOTING:**

- **To select the right port and type of arduino**
- **To check the loose connections**
- **To check the connections according to the codes**
- **To check the continuity of the circuit**
- **To check the flow of current in the circuit**

## **PRECAUTIONS:**

- **Handle tools carefully**
- **Wear gloves**
- **Do not connect arduino till the circuit is complete**

## **OUTCOMES:**

- **On and off of an LED**
- **Used in project works**

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