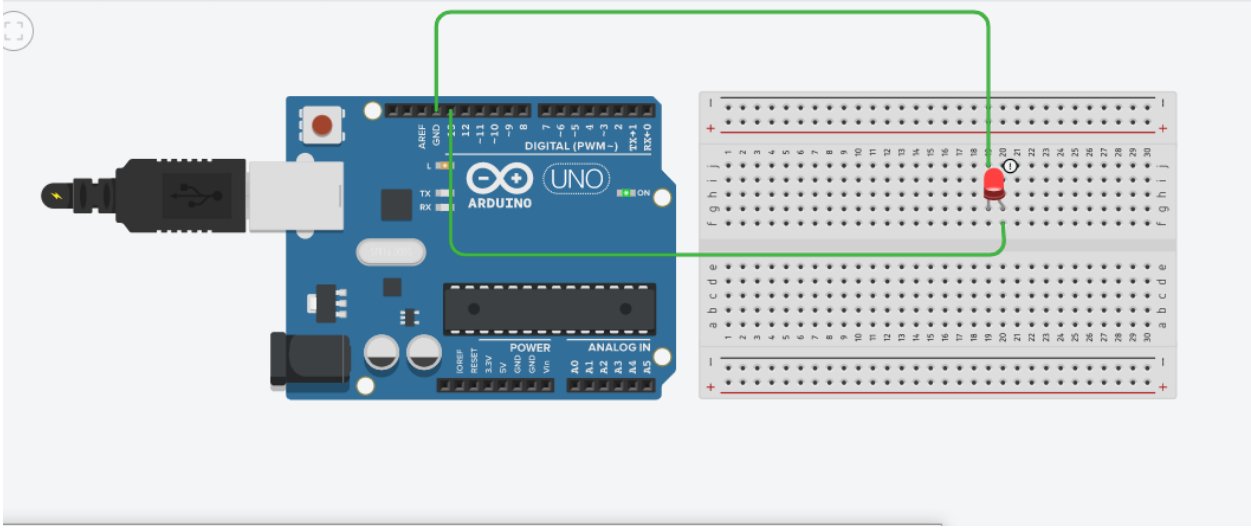
EXP.2

DESIGN AN LED flasher.

Circuit diagram:



Theory:

Concept used:

- By using kirchoff's voltage law

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- 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.

Programming:

```
void setup()
{
  pinMode(13, OUTPUT);
}
void loop()
{
  digitalWrite(13, HIGH);
  delay(1000);
digitalWrite(13, LOW);
  delay(1000);
 }
```

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