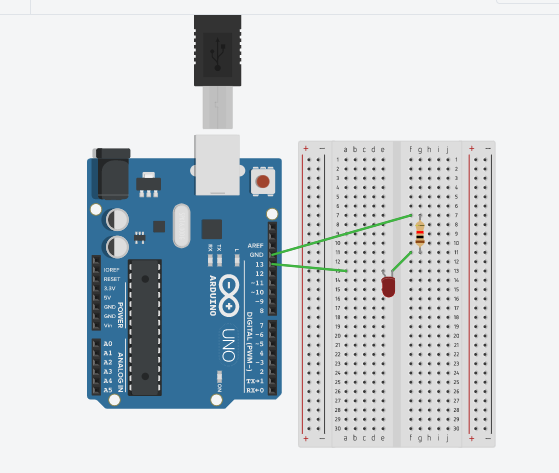
**Experiment 1:-**

Design a LED flasher.

**Circuit Diagram:-**

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**Theory:-**

**Concepts used in this experiment:-**

The concepts used in performing this experiment-

* The arduino board can supply a power of 5V as digital output signals through 14 pins.
* The GND pin of the arduino board acts as ground.
* In the bread board the two rows present at the top and bottom, are connected with each other in series and the columns present in between are connected in a set of 5 each. The connection pattern is shown below:

**Learnings and Observation:-**

**Learnings:**

* I have learned how to work practically with a breadboard and other things.
* I have learned how an arduino works and how current flows.

**Observations:-**

* When we pass electrical signals through our code the LED glows.

**Problems and Troubleshooting:-**

The problems faced by me while doing this task are :-

* The LED used may not be working properly.
* The circuit was not working because the wires were not connected properly.

**Precautions:-**

The precautions that should be taken while doing this experiment are :-

* The connections should not be loose.
* Every stuff should be joined at their appropriate place and it should be properly connected.
* The code should be properly written.

**Learning Outcomes:-**

* I learnt about the different components in an Arduino.
* I also learnt how to connect the wires to Arduino and breadboard and writing the program for operating the LED’s.