LAB REPORT: 1

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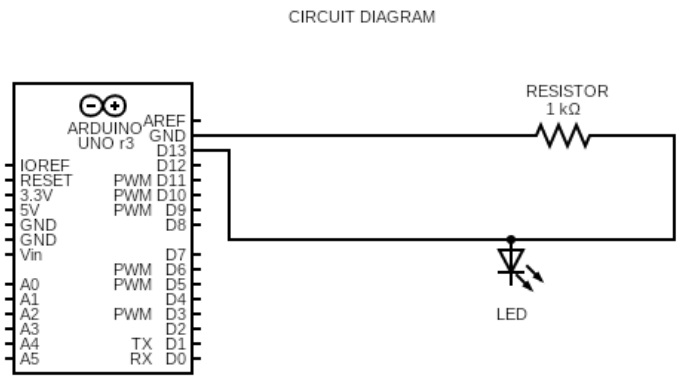
Aim/Objective of the experiment: Timely blinking of LED

Electronic components used: 1 Arduino board, 1 kilo ohm resistor, 1 LED, 1 breadboard

Reference Circuit:



Procedure:

1. An Arduino Board is taken.
2. A breadboard is taken and it is connected to the Arduino Pin 13 and the Ground (GND) Pin.
3. A 1 kilo ohm resistor and an LED are connected to the breadboard.
4. We then code and define Pin 13 as output such that PIN 13 will be in HIGH state for 5 s and then LOW state for 2s. The code is available with the simulation linked below.
5. The code is executed using the “STRAT SIMULATION” Tab.
   The code:

```
void setup()
{
  pinMode(13, OUTPUT);
}
void loop()
{
  digitalWrite(13, HIGH);
  delay(5000);
  digitalWrite(13, LOW);
  delay(2000);
}
```

Conclusion: The LED does turn ON for 5s and then turns OFF for 2s.

Link of the TinderCAD simulation: https://www.tinkercad.com/things/3lBRVXbTfX2-brilliant-kieran-wluff/editel?sharecode=QSFZ6_yh2b9RvyzB6xG7qYizSuoiU7i3oHyNcPjyW-I