IOT Lab - 5th Sem

Name: Rajath MK, USN: 1BM18CS079

Program No: 03

Program Title: LED Fading Program

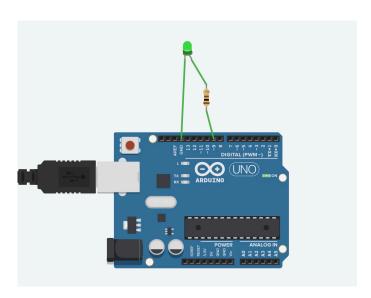
Aim:

To fade a led bulb on & off using an Arduino Uno board.

Hardware Required:

- Arduino Uno Board
- Led Bulb
- Resistors 100 ohm

Circuit Diagram:



Written Code:

```
Rajath.M.K
                                  1BM18CS079
Fording Program Code:
 int Leda 9;
 int brightness= 0;
 int fade Amount = 5/
 void sety() 5
     pin Mode (Led, OUTPUT).
 void loop() {
      analogWrite (led, brighthess);
       brightness = brightness + fadeAmount;
       if (brightness== 0 11 brightness == 255) {
              fode Amount = - fade Amount ;
      delay (30)
```

Observation / Output:

The LED bulb was faded on and off with a delay of 30ms