# IOT Lab - 5th Sem

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Program No: 04

**Program Title :Potentiometer** 

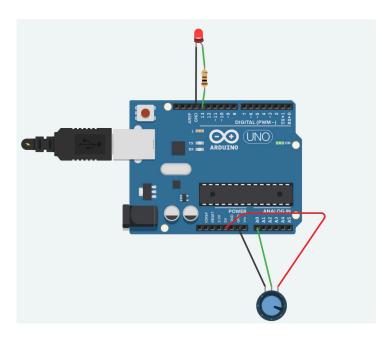
### Aim:

To control the brightness of an LED bulb using an Arduino Uno board.

# Hardware Required:

- Arduino Uno Board
- Led Bulb
- Resistors 100 ohm
- Potentiometer
- Jump wires

# **Circuit Diagram:**



#### **Written Code:**

```
Rajath.M.K
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Fording Program Code:
 int Ledigy;
 int brightness= 0;
 int fade Amount = 5/
 void setyp() 5
     pin Mode (Led, OUTPUT):
 void loop() {
       analogWrite (led, brighthess);
       brightness = brightness + fadeAmount;
       if (Grightness == 0 11 Grightness == 255) {
              fode Amount = - fade Amount ;
      Jelory (30)
```

# **Observation / Output:**

The brightness of the LED bulb increased/decreased upon turning the potentiometer knob.