

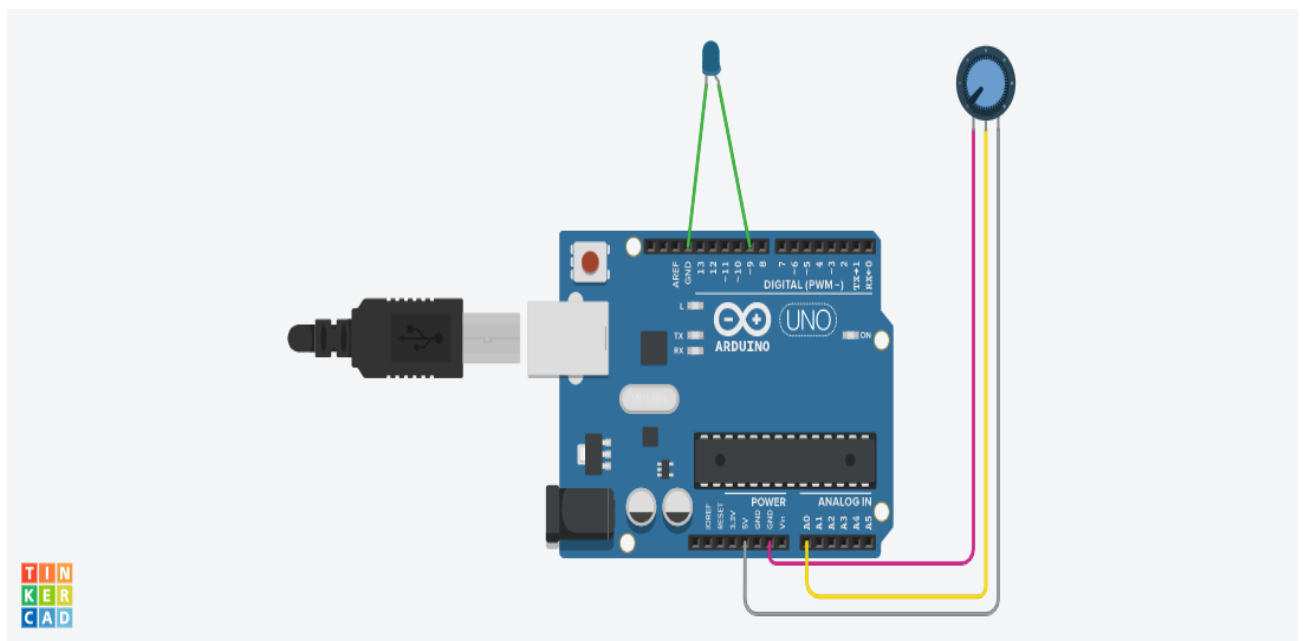
**Program no : 05**

**Program Title : Potentiometer**

### **Hardware Required :**

- Arduino Board
- Wires
- LED
- Potentiometer

### **Circuit Diagram :**



## Code:

```
Text 1 (Arduino Uno R3)
1  int LED_PIN=9;
2
3  void setup()
4  {
5      Serial.begin(9600);
6      pinMode(LED_PIN,OUTPUT);
7  }
8
9  void loop()
10 {
11     int analogValue=analogRead(A0);
12     int brightness=map(analogValue,0,1023,0,255);
13     analogWrite(LED_PIN,brightness);
14     Serial.print("Analog:");
15     Serial.print(analogValue);
16     Serial.print("Brightness:");
17     Serial.print(brightness);
18     delay(100);
19 }
20 }
```

## Observation /Output :

