Program no 03

Program Title: POTENTIOMETER-LED

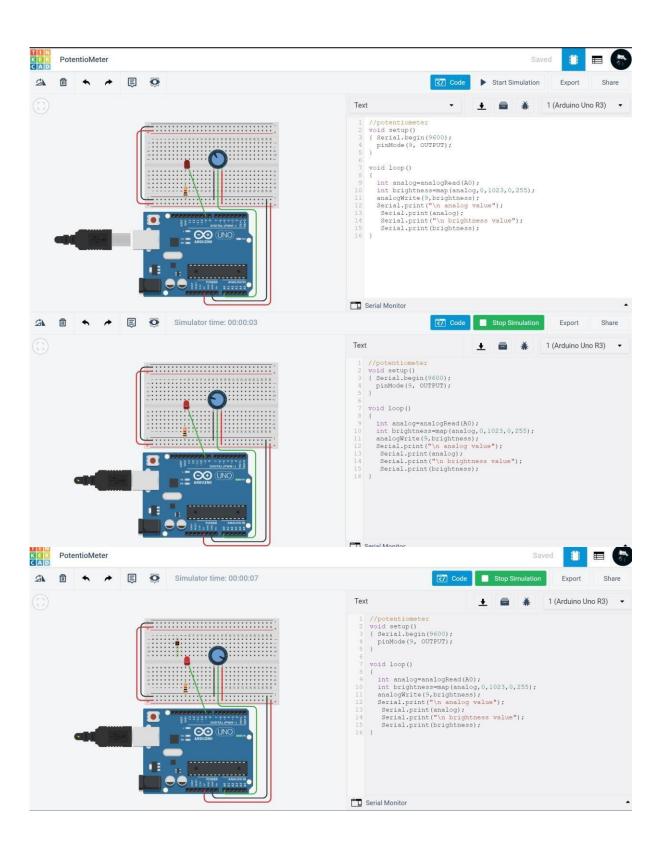
Aim

To demonstrate brightness of LED according to Potentiometer resistance

Hardware Required

- Arduino Board
- Led Light
- 1 ohm resistor
- 1 Potentiometer

Circuit Diagram -



```
1 BM 1805122
                               K. J. Varad Vithal
4) Potentiom LED - LED
  // potentiometer
  void setup ()
   of Serial - begin (9600);
     PINMOde (9, OUTPUT);
      Void loop U
       int analog = analog Read (AO);
int brightness = map (analog, o,
       1023, 0, 2551;
      analog white (9, brightness);
Serial print ("manalog Value");
      Serial . print (analog);
      Serial . print ("In brightness value");
      Serial . print (brightness);
```

Observation / Output:

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