## Program no 03

## **Program Title: POTENTIOMETER-LED**

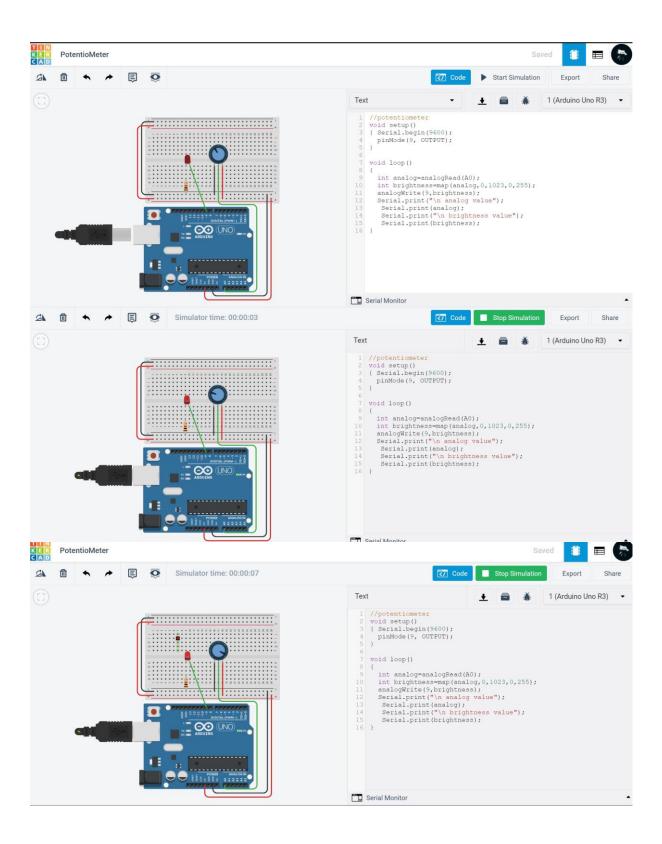
Aim

To demonstrate brightness of LED according to Potentiometer resistance

#### **Hardware Required**

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

Circuit Diagram -



### **Code:**

//potentiometer

```
void setup()
{ Serial.begin(9600);
  pinMode(9, OUTPUT);
}

void loop()
{
  int analog=analogRead(A0);
  int brightness=map(analog,0,1023,0,255);
  analogWrite(9,brightness);
  Serial.print("\n analog value");
  Serial.print(analog);
  Serial.print("\n brightness value");
  Serial.print(brightness);
}
```

# **Observation / Output:**

