

IOT LAB

Program no - 5

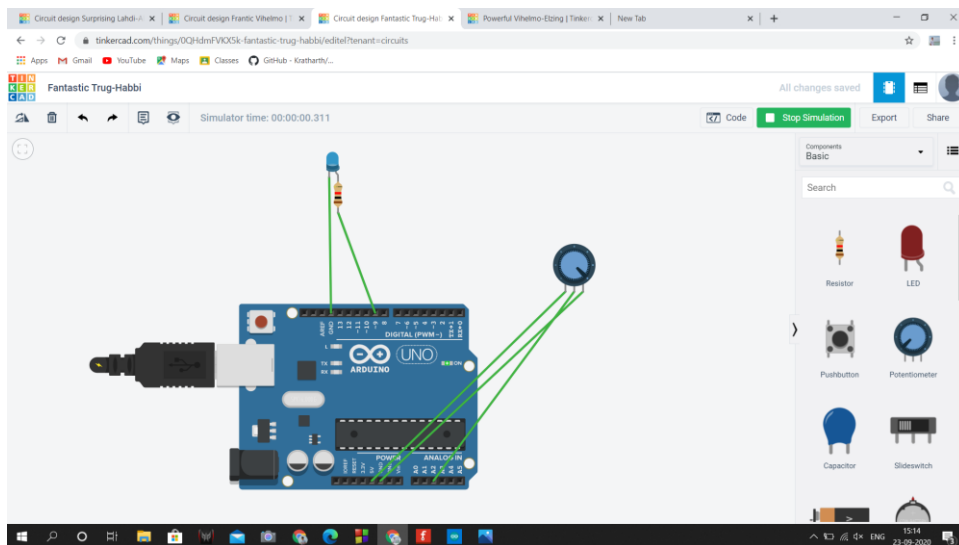
Program Title – POTENTIOMETER

AIM – Demonstrate the working of LED using potentiometer

Hardware Required -

- Arduino Board
- LED
- Breadboard
- Wires
- Potentiometer
- Resistor

Circuit Diagram -



Code-

CAB-5
Date: / /

Demonstration of LED using potentiometer.

18m180049
SMAJMAN PAB 17

Code:

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

void loop()
{
  int analog = analogRead(A0);
  int brightness = map(analog, 0, 1023, 0, 100);
  analogWrite(9, brightness);
  Serial.print("Analog value:");
  Serial.print(analog);
  Serial.print("\n Brightness value:");
  Serial.print(brightness);
}
```

[Signature]

Observation /Output -

The working of led using potentiometer is observed.