

IOT LAB

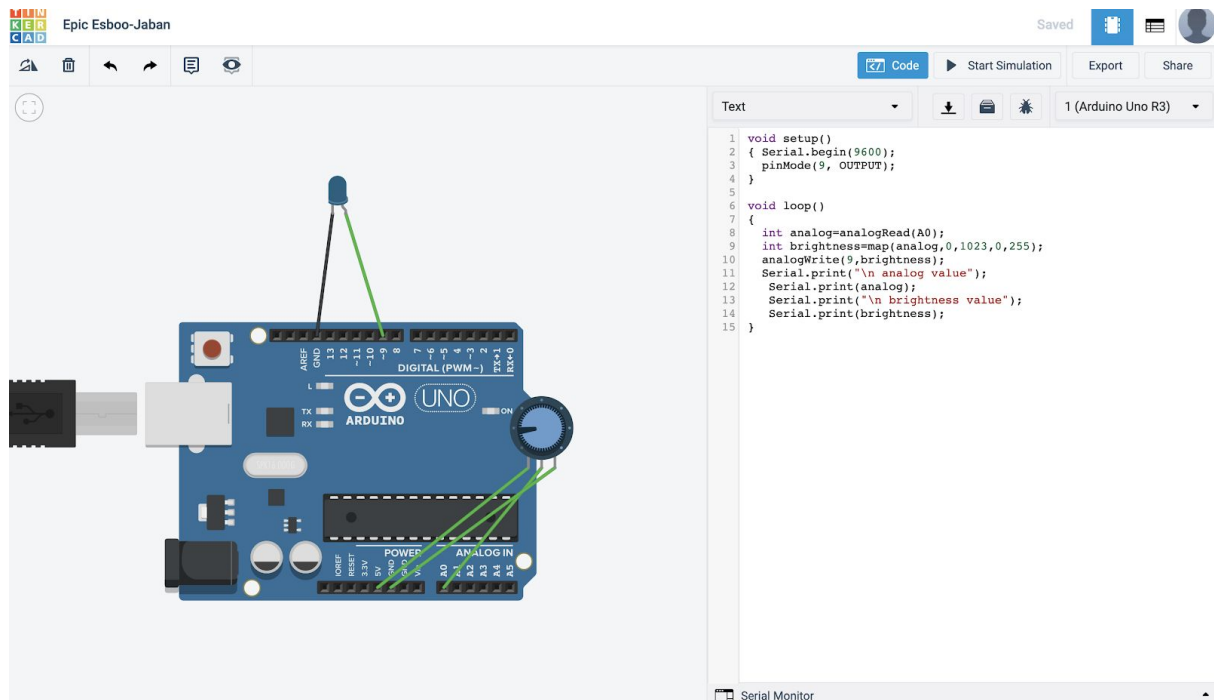
Program Title – POTENTIOMETER

AIM – Demonstrate the working of LED using potentiometer

Hardware Required -

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

Circuit Diagram -



Code-

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Brightness

```
Void Setup()
{
  Serial.begin(9600);
  pinMode(3, OUTPUT);
}

Void loop()
{
  int analog = analogRead(A0);
  int brightness = map(analog, 0, 1023, 0, 255);
  analogWrite(3, brightness);
  Serial.print("\n analog Value");
  Serial.print(analog);
  Serial.print("\n brightness Value");
  Serial.print(brightness);
}
```

Observation /Output -

The working of led using potentiometer is observed.