Name – Shreya Laddha

Program No. – 04

Program Title – LED fading with potentiometer

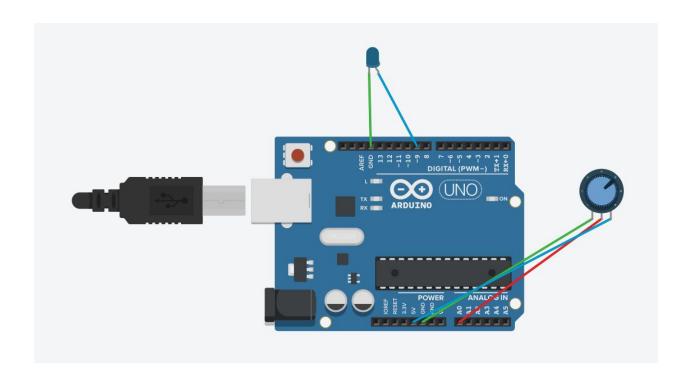
AIM

Demonstrate to show LED fading(analog output).

HARDWARES REQUIRED

- Arduino Board
- LED bulb
- Potentiometer

CIRCUIT DIAGRAM



WRITE-UP

PFA

CODE

```
int LED PIN = 9;
void setup()
{
 Serial.begin(9600);
 pinMode(LED_PIN, OUTPUT);
}
void loop()
{
 int analogValue = analogRead(A0);
 int brightness = map(analogValue, 0, 1023, 0, 255);
 analogWrite(LED_PIN, brightness);
 Serial.print("Analog: ");
 Serial.print(analogValue);
 Serial.print(", Brightness: ");
 Serial.println(brightness);
```

```
delay(100);
}
```

OUTPUT

Fading of LED with potentiometer.

