

Name: Atharva Arya
USN: 1B1418CS020

Date = 23/09/2020

Program Title: LED FADING (using Potentiometer)

Aim: To demonstrate LED Fading using potentiometer

Hardware Required

Arduino Board

LED

Potentiometer.

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);
```

```
  serialPrint("Analog: ");
```

```
  serialPrint("Brightness: ");
```

```
  serialPrintln(brightness);
```

```
  delay(100);
```

```
}
```

Circuit diagram.

