

```
int sensorValue = 0 ;
```

```
void setup() {
```

```
    pinMode(A0, INPUT);
```

```
    pinMode(13, OUTPUT);
```

```
    Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
    sensorValue = analogRead(A0);
```

```
    Serial.print(sensorValue);
```

```
    int fade = map(sensorValue, 54, 974, 255, 0);
```

```
    Serial.print(fade);
```

```
    analogWrite(13, fade);
```

```
    delay(100);
```

```
}
```