

Program no. - 5

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Program title : LED Fading using a Potentiometer

Aim : Make LED fade and brighten up, using a Potentiometer.

Hardware required :

→ Arduino board

→ LED

→ Wires

→ Potentiometer

Code :

```
void setup()
```

```
{
```

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

```
  pinMode(9, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  int analog = analogRead(A2);
```

```
  int brightness = map(analog, 0, 1023, 0, 255);
```



```
analogWrite (9, brightness);
```

```
Serial.print ("\n analog value");
```

```
Serial.print (analog);
```

```
Serial.print ("\n brightness value");
```

```
Serial.print (brightness);
```

```
}
```