

```
const int LED_PIN=5;
```

```
const int WAITTIME = 50;
```

```
const int STEP = 5;
```

```
void setup(){  
    pinMode( LED_PIN, OUTPUT );  
}
```

```
void loop(){  
    int i;  
  
    i = 0;  
    while ( i <= 255 ){  
        analogWrite( LED_PIN, i );  
        delay( WAITTIME );  
        i = i + STEP;  
    }
```

```
    i = 255;  
    while ( i >= 0 ){  
        analogWrite( LED_PIN, i );  
        delay( WAITTIME );  
        i = i - STEP;  
    }
```

```
}
```