

```
int redpin = 11;  // select the input pin for the potentiometer
```

```
int bluepin =10;   // select the pin for the LED
```

```
int yellowpin =9;
```

```
int val;
```

```
void setup() {
```

```
    pinMode(redpin, OUTPUT);
```

```
    pinMode(bluepin, OUTPUT);
```

```
    pinMode(yellowpin, OUTPUT);
```

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

```
}
```

```
void loop()
```

```
{
```

```
for(val=255; val>0; val--)
```

```
{
```

```
    analogWrite(11, val);
```

```
    analogWrite(10, 255-val);
```

```
    analogWrite(9, 128-val);
```

```
    delay(1);
```

```
}
```

```
for(val=0; val<255; val++)
```

```
{
```

```
    analogWrite(11, val);
```

```
    analogWrite(10, 255-val);
```

```
    analogWrite(9, 128-val);
```

```
    delay(1);
```

```
}
```

```
Serial.println(val, DEC);
```

}

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