

```
const int transistorPin = 9;    // connected to the base of the transistor
const int transistorPinn = 11;

void setup() {
    // set the transistor pin as output:
    pinMode(transistorPin, OUTPUT);
    pinMode(transistorPinn, OUTPUT);
}

void loop() {
    // read the potentiometer:
    int sensorValue = analogRead(A0);
    // map the sensor value to a range from 0 - 255:
    int outputValue = map(sensorValue, 0, 1023, 0, 255);
    int outputValuee = map(sensorValue, 0, 1023, 255, 0);
    // use that to control the transistor:
    analogWrite(transistorPin, outputValue);
    analogWrite(transistorPinn, outputValuee);
}
```