int switchPin = 8;

int ledPin = 11;

boolean lastbutton = LOW;

boolean currentbutton = LOW;

int ledlevel1 = 0;

void setup() {

pinMode(switchPin,INPUT);

pinMode(ledPin,OUTPUT);

}

boolean debounce(boolean last)

{

boolean current = digitalRead(switchPin);

if(last =! current)

{

delay(5);

current = digitalRead(switchPin);

}

return current;

}

void loop() {

currentbutton = debounce(lastbutton);

if(lastbutton == LOW && currentbutton == HIGH)

{

ledlevel1 = ledlevel1+51;

}

lastbutton = currentbutton;

if(ledlevel1 > 255)

ledlevel1 = 0;

analogWrite(ledPin,ledlevel1);

}