

```
int state = 0;

void setup() {
    pinMode(9,OUTPUT);
    pinMode(2,INPUT_PULLUP);
    Serial.begin(9600);
}

void loop() {
    int buttonPush = 1;
    buttonPush = digitalRead(2);
    if(buttonPush == 0 )
    {
        state++;
    }
    if (state == 0)
    {
        analogWrite(9,0);
        Serial.println("rank0");
    }
    else if (state == 1)
    {
        analogWrite (9, 10);
        Serial.println("rank1");
    }
    else if (state == 2)
    {
        analogWrite (9, 25);
        Serial.println("rank2");
    }
    else if (state == 3)
    {
        analogWrite (9, 80);
        Serial.println("rank3");
    }
    else if (state == 4)
```

```
{  
    analogWrite (9, 150);  
    Serial.println("rank4");  
}  
else if (state == 5)  
{  
    state = 0;  
  
}  
delay(500);  
}
```