```
 1 #define CERVENA  5
 2 #define ZELENA   6
 3 #define ZLUTA    7
 4 #define PWM_PIN  3
 5
 6 #define NOVY_RADEK "\r\n"
 7
 8 void setup() {
 9   Serial.begin(57600);
10   pinMode(CERVENA, OUTPUT);
11   pinMode(ZELENA,  OUTPUT);
12   pinMode(ZLUTA,   OUTPUT);
13   pinMode(PWM_PIN, OUTPUT);
14 }
15
16 void loop() {
17
18   if (Serial.available() > 0) {
19     char nacteno = Serial.read();
20
21
22     switch (nacteno) {
23     case 'a': //CERVENA_ON
24       digitalWrite(CERVENA, HIGH);
25       Serial.print("OK_CERVENA_ON");  // musi byt v " ne v '  (" vraci text, ' vraci cislo v
26       Serial.print(NOVY_RADEK);
27       break;
28
29     case 'b': //CERVENA_OFF
30       digitalWrite(CERVENA, LOW);
31       Serial.print("OK_CERVENA_OFF");
32       Serial.print(NOVY_RADEK);
33       break;
34
35     case 'c': //ZELENA_ON
36       digitalWrite(ZELENA, HIGH);
37       Serial.print("OK_ZELENA_ON");
38       Serial.print(NOVY_RADEK);
39       break;
40
41     case 'd': //ZELENA_OFF
42       digitalWrite(ZELENA, LOW);
43       Serial.print("OK_ZELENA_OFF");
44       Serial.print(NOVY_RADEK);
45       break;
46
47     case 'e': //ZLUTA_ON
48       digitalWrite(ZLUTA, HIGH);
49       Serial.print("OK_ZLUTA_ON");
50       Serial.print(NOVY_RADEK);
51       break;
52
53     case 'f': //ZLUTA_OFF
54       digitalWrite(ZLUTA, LOW);
55       Serial.print("OK_ZLUTA_OFF");
56       Serial.print(NOVY_RADEK);
57       break;
58
59     case 'g': //VSE_ON
60       digitalWrite(CERVENA, HIGH);
61       digitalWrite(ZELENA, HIGH);
62       digitalWrite(ZLUTA, HIGH);
63       Serial.print("OK_VSE_ON");
64       Serial.print(NOVY_RADEK);
65       break;
66
67     case 'h': //VSE_OFF
68       digitalWrite(CERVENA, LOW);
69       digitalWrite(ZELENA, LOW);
70       digitalWrite(ZLUTA, LOW);
71       Serial.print("OK_VSE_OFF");
72       Serial.print(NOVY_RADEK);
73       break;
```

```
74
75      case 'i': //PWM
76        delay(1);  //pro 9600b
77        //delayMicroseconds(200);  //pro 57600b
78        if ( Serial.available() > 0 ) {
79          int nactenoPWM = Serial.read();
80          analogWrite(PWM_PIN, (nactenoPWM * 4));
81        }
82        break;
83
84      default:
85        Serial.print("NEZNAMY_PRIKAZ");
86        Serial.print(NOVY_RADEK);
87        }
88      }
89  }
```

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syntax highlighted by Code2HTML, v. 0.9.1