

```
1
2 int ib = 0;    // for incoming serial data
3
4 // piezo buzzer를 9번핀에 연결합니다.
5 int buzzer = 9;
6
7 void setup() {
8     Serial.begin(9600);    // opens serial port, sets data rate to 9600 bps
9     pinMode(buzzer,OUTPUT);
10    pinMode(LED_BUILTIN, OUTPUT);
11 }
12
13 void loop() {
14     // send data only when you receive data:
15     if (Serial.available() > 0) {
16
17         // read the incoming byte:
18         ib = Serial.read();
19         //incomingByte = incomingByte+1;
20         if(ib == '1')
21         {
22             tone(buzzer, 261, 1000);
23             digitalWrite(LED_BUILTIN, HIGH);    // turn the LED on (HIGH is the voltage level)
24             Serial.print("Do");
25         }
26         else if(ib == '2')
27         {
28             tone(buzzer, 293, 1000);
29         }
30         else if(ib == '3')
31         {
32             tone(buzzer, 329, 1000);
33         }
34         else if(ib == '4')
35         {
36             tone(buzzer, 349, 1000);
37         }
38         else if(ib == '5')
39         {
40             tone(buzzer, 391, 1000);
41         }
42
43         else if(ib == '6')
44         {
45             tone(buzzer, 440, 1000);
46         }
47
48         else if(ib == '7')
49         {
50             tone(buzzer, 494, 1000);
51         }
52
53
54         else if(ib == '0')
55         {
56             digitalWrite(LED_BUILTIN, LOW);    // turn the LED off by making the voltage LOW
57             Serial.print("Off");
58
59             noTone(buzzer);
60         }
61         // say what you got:
62         //Serial.print((char)incomingByte);
63     }
64
65 }
66
```