```
byte seven_seg_digits[16][7] = { { 1,1,1,1,1,1,0 }, // = 0
                            \{0,1,1,0,0,0,0,0\}, // = 1
                            \{1,1,0,1,1,0,1\}, // = 2
                            \{1,1,1,1,0,0,1\}, // = 3
                            \{0,1,1,0,0,1,1\}, // = 4
                            \{1,0,1,1,0,1,1\}, // = 5
                            \{1,1,1,0,0,0,0,0,0,0,0,0\}, // = 7
                            \{1,1,1,0,0,1,1\}, // = 9
                            \{1,1,1,0,1,1,1\}, // = A
                            \{0,0,0,1,1,0,1\}, // = c
                            \{0,1,1,1,1,0,1\}, // = d
                            };
const int buttonPin = 12;
int buttonState = 0;
int num = 0;
void setup() {
 pinMode(2, OUTPUT);
 pinMode(3, OUTPUT);
 pinMode(4, OUTPUT);
 pinMode(5, OUTPUT);
 pinMode(6, OUTPUT);
 pinMode(7, OUTPUT);
 pinMode(8, OUTPUT);
 pinMode(9, OUTPUT);
 digitalWrite(9, 0); // 關閉小數點
 digitalWrite(buttonPin,HIGH);
 pinMode(buttonPin, INPUT);
void sevenSegWrite(byte digit) {
 byte pin = 2;
 for (byte seg = 0; seg < 7; ++seg) {
   digitalWrite(pin, seven_seg_digits[digit][seg]);
   ++pin;
}
```

```
void loop() {
  buttonState = digitalRead(buttonPin);
  if(buttonState == HIGH){
    num ++;
    if(num > 15){
        num = 0;
    }
} sevenSegWrite(num);
  delay(1000);
```