

To Interface Seven Segment Display with 8051 microcontroller,
display
digits 0-9 in ascending order.

```
#include <reg51.h> // Include 8051 specific header file

// Delay function to introduce a delay
void delay(unsigned int ms) {
    unsigned int i, j;
    for (i = 0; i < ms; i++)
        for (j = 0; j < 120; j++);
}

void main() {
    unsigned char i;
    unsigned char sevenSegment[] = {
        0x3F, // 0
        0x06, // 1
        0x5B, // 2
        0x4F, // 3
        0x66, // 4
        0x6D, // 5
        0x7D, // 6
        0x07, // 7
        0x7F, // 8
        0x6F // 9
    };

    while (1) {
        for (i = 0; i <= 9; i++) {
            P0 = sevenSegment[i]; // Display the digit
            delay(1000); // Delay for 1 second
        }
    }
}
```