

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  
        }  
    }  
}
```