# 微算機系統作業

## 〈第十四題〉多精確制 BCD 加法

#### 1. 原題

```
1 ;ex4.4-3.a51
2 DSEG AT 30H
3 COUNT EQU 04H ;repeat times
4 ADDEND: DS 4 ;addend
5 AUGEND: DS 4 ;augend/result
6 ;multi-precision BCD addition
7 CSEG AT 0000H
8 MBCDADD: MOV R2,#COUNT ;put count in CX
9 MOV R0,#LOW ADDEND ;point to addend
10 MOV R1,#LOW AUGEND ;point to augend
11 CLR C ;clear carry flag
12 BEGIN: MOV A,@R0 ;add them
13 ADDC A,@R1 ;
14 DA A ;decimal adjust
15 MOV @R1,A ;save the result
16 INC R0 ;point to the next item
17 INC R1
18 DEC R2 ;repeat count times
CJNE R2,#00,BEGIN
RET
   0004
 0030
 0034
 0000 7A04
 0002 7830
 0004 7934
 0006 C3
 0007 E6
 0009 D4
000A F7
000B 08
 000C 09
 000E BA00F6
```

### 2. 修正後程式碼

## 3. edsim51di 輸出畫面

