



① Swap the contents of two arrays

.model small

.data

a db 10h, 20h, 30h, 40h, 50h

b db 11h, 22h, 33h, 44h, 55h

.code

mov ax, @data

mov ds, ax

lea si, a

lea di, b

mov cx, 05h

l1: mov al, [si]

xchg al, [di]

mov [si], al

inc si

inc di

loop l1

mov ah, 4ch

int 21h

end

② Demonstration of instruction of DAA.

.model small

.data

a db 63h

b db 88h

.code

mov ax, @data

mov ds, ax

mov al, a

add al, b

das

mov ah, 4ch

int 21h

end

② Adding two large numbers.

.model small

.data

num1 db 00h, 03h, 42h, 98h

num2 db 07h, 57h, 13h, 64h

res db 4 dup(?)

.code

mov ax, @data

mov ds, ax

mov si, 03h

mov cx, 04h

cld

dec: mov al, num1[si]

adc al, num2[si]



```
    d a a
    mov     res[si], al
    dec     si
    loop    deci
    mov     ah, 4ch
    int     21h
    end
```

④ Subtracting two large numbers

.model small

.data

num1 dd 00h, 03h, 47h, 98h

num2 db 07h, 57h, 13h, 64h

res db 4 dup(?)

.code

mov ax, @data

mov ds, ax

mov si, 03h

mov ch, 04h

cld

deci: mov al, num1[si]

sub al, num2[si]

das

mov res[si], al

dec si



Page No : 10

Date : / /

```
loop deci  
mov sh, 4ch  
int 21h  
end
```