实验一、数据显示输出

实验代码

data segment

dat1 dw 0ffffh

cn dw ?

data ends

code segment

assume cs:code,ds:data

begin:

mov ax,data

mov ds,ax

mov bx,dat1

call bin\_show

call crlf

mov bx,dat1

call hex\_show

call crlf

mov bx,dat1

call dec\_show

call crlf

call count1

mov bx,cn

call dec\_show

mov ah,4ch

int 21h

hex\_show proc

mov cx,4

t2: push cx

mov cl,4

rol bx,cl

pop cx

mov dl,bl

and dl,0fh

add dl,30h

cmp dl,39h

jbe print

add dl,7

print: mov ah,2

int 21h

loop t2

ret

hex\_show endp

bin\_show proc

mov cx,16

t1: rol bx,1

mov dl,bl

and dl,01h

add dl,30h

mov ah,2

int 21h

loop t1

ret

bin\_show endp

dec\_show proc

mov cx,10000

call dec\_div

mov cx,1000

call dec\_div

mov cx,100

call dec\_div

mov cx,10

call dec\_div

mov cx,1

call dec\_div

ret

dec\_show endp

dec\_div proc

mov dx,0

mov ax,bx

div cx

mov bx,dx

mov dl,al

add dl,30h

mov ah,2

int 21h

ret

dec\_div endp

count1 proc

mov dx,0

mov bx,dat1

mov cx,16

t: shl bx,1

jnc next

inc dx

next: loop t

mov cn,dx

ret

count1 endp

crlf proc

mov dl,0dh

mov ah,2

int 21h

mov dl,0ah

mov ah,2

int 21h

ret

crlf endp

code ends

end begin