Ascending order with Address

Descending order without address

CODE SEGMENT ASSUME CS:CODE START:	assume cs:code,ds:data data segment list dw 03h, 04h, 01h,
MOV AX, 0000H	05h, 02h
MOV BL, AL	count equ 05h
MOV CL, AL	data ends
MOV SI, 1000H	code segment
•	start:
MOV BL, [SI]	_
DEC BL	mov ax,data
L3:	mov ds,ax
MOV CL, BL	mov bx,count
MOV SI, 2000H	dec bx
L2:	back:
MOV AL, [SI]	mov cx,bx
CMP AL, [SI+1]	mov si,offset list
JLE L1	again:
XCHG AL, [SI+1]	mov ax,[si]
MOV [SI], AL	cmp ax,[si+2]
L1:	jnc go
INC SI	xchg ax, [si+2]
LOOP L2	xchg ax, [si]
DEC BL	go:
JNZ L3	inc si
INT 3	inc si
CODE ENDS	loop again
END START	dec bx
	jnz back
	hlt
	code ends
	end start

Smallest Number without address

assume cs:code,ds:data data segment list db 50h,20h,70h,60h,10h,01h,03h count equ 06h largest db 01h dup(?) data ends code segment start:mov ax,data mov ds,ax mov si, offset list mov cl,count mov al,[si] again:cmp al,[si+1] jle next mov al,[si] next:inc si dec cl inz again mov si, offset largest mov ah,4ch int 21h code ends end start

Binary to Ascii

CODE SEGMENT ASSUME CS:CODE START: **MOV AX, 0000H** MOV SI, 3000H MOV AL, [SI] MOV AH, AL **INC SI** AND AL, OFH MOV CL, 04H SHR AH, CL OR AX, 3030H MOV [SI], AX INT 3 **CODE ENDS END START**

Binatry to Gray Scale

CODE SEGMENT
ASSUME CS:CODE
START:

MOV SI, 3000H

MOV AL, [SI]

MOV BL, AL

CLC

RCR AL, 1

XOR BL, AL

INC SI

MOV [SI], BL

INT 3

CODE ENDS

END START

Factorial		int 21h	
		code	e ends
code	e segment	end	start
	ıme cs:code		
star			
	xor ax,ax	Rev	erse String
	mov bl,bl		G
	mov si,2000h	data	segment
	mov bl,[si]	5. 5. 5.	str db 'welcome'
	mov al,01h		count equ 07
l1:	mul bl	data	n ends
	dec bl	0.0.00	
	jnz l1	code	e segment
	mov si,3000h		ıme cs:code,ds:data
	mov [si],ax	star	•
int 3			mov ax,data
code	e ends		mov ds,ax
end start			mov cx,count
		l1:	•
Display String			mov bx,[si]
וטוט	play String		push bx
ما مـ 4 م			inc si
data segment			loop l1
array db 'good morning \$'			mov cx,count
data ends		12:	
ممما			pop dx
code segment			mov ah,2
	ıme cs:code,ds:data		int 21h
start			loop I2
	v ax,data		mov ah,4ch
	ds,ax		int 21h
lea dx,array		code	e ends
mov ah,09		end	start
int 2			
mov	ah,4ch		

Palindrome	cmp [di],al	
	jne notpalindrome	
data segment	inc si	
msg1 db 'Enter the	cmp si,di	
string:\$'	jl dothis	
msg2 db 'String is	palindrome:	
Palindrome \$'	mov ah,09h	
msg3 db 'String is Not	lea dx,msg2	
Palindrome \$'	int 21h	
str db 50 dup(0)	jmp xx	
data ends	notpalindrome:	
code segment	mov ah,09h	
assume cs:code,ds:data	lea dx,msg3	
start:	int 21h	
mov ax,data	xx:	
mov ds,ax	mov ah,4ch	
lea dx,msg1	int 21h	
mov ah,09h	code ends	
int 21h	end start	
lea si,str		
lea di,str		
mov ah,01h		
next:		
int 21h		
cmp al,0Dh		
je terminate		
mov [di],al		
inc di		
jmp next		
terminate:		
mov al,'\$'		
mov [di],al		
dothis:		
dec di		
mov al,[si]		

Password Verifying

.model small .stack 100h .data message db 'Enter the pswd:\$' password db 'vitvellore' count dw 10 correct db 'Password verified and correct\$' notcorrect db 'Incorecet password\$' .code start: mov ax,@data mov ds,ax mov cx, count mov bx,offset password mov dx,offset message mov ah,09h int 21h again: mov ah,08h int 21h cmp al,[bx] jne error inc bx loop again mov dx,offset correct mov ah,09h int 21h jmp exit

error:

mov dx,offset notcorrect

mov ah,09h int 21h exit: mov ah,4ch int 21h end start

String Lenght

data segment
x db "cse2006"
len1 db (\$-x)
y db "microprocessor and
interfacing"
len2 db (\$-y)
data ends

code segment
assume cs:code,ds:data
start:
mov ax,data
mov ds,ax
mov cl,len1
mov ch,len2
int 3
code ends
end start

String Comparison

fibonacci series

data	segment array1 db 'good'	.MODEL SMALL .STACK 100H
\$'	array2 db 'god' cnt db 04h str1 db 'strings are equal	.DATA fib1 DW 0000H fib2 DW 0001H fib3 DW 0000H
	str2 db 'strings are	1103 DW 000011
uneq	ıual \$'	.CODE
data	ends	MOV AX, @DATA MOV DS, AX
code	segment	MOV CV 10H loop 10
assui	me	MOV CX, 10H ; loop 10 times
cs:co	de,ds:data,es:data	MOV BX, 0 ; initialize loop
start:		counter
	mov ax,data	MOV AX, fib1
	mov ds,ax	MOV DX, fib2
	mov es,ax	
	mov cl,cnt	FIB_LOOP: ADD AX, DX ; add previous
	lea si,array1	two terms
	lea di,array2	MOV fib3, AX ; save the
	rep cmpsb	result in fib3
	jnz l1	MOV AX, DX ; shift the
	lea dx,str1	values
	jmp l2	MOV DX, fib3 INC BX; increment the
l1:		loop counter
	lea dx,str2	CMP BX, CX ; compare the
12:		counter with the limit
	mov ah,09h	JB FIB_LOOP ; jump to the
	int 21h	loop if less than
	mov ah,4ch	MOVAY ACCOUNT
	int 21h	MOV AX, 4C00H ; return control to the operating system
	code ends	INT 21H
	end start	END