**Q.1.**

dosseg

.model small

.stack 100h

.data

str1 db 10,13,'Enter a number to find its fib series $'

num db ?

str2 db 10,13,'The answer is $'

num2 db ?

.code

fib proc

mov al,1

mov bl,1

mov cx,5

l1:

add al,bl ;1+1=2

mov dl,al

mov al,bl

mov bl,dl

loop l1

;sub bl,1

mov num2,bl

mov dl,num2

add dl,30h

mov ah,02h

int 21h

ret

fib endp

main proc

mov ax,@data

mov ds,ax

;mov dx,offset str1

;mov ah,09h

;int 21h

;mov ah,01h

;int 21h

;mov num,al

call fib

;\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mov ah,4ch

int 21h

main endp

end main

**Q.2.**

dosseg

.model small

.stack 100h

.data

arr db '5','2','3','4','5','5'

str1 db 10,13,'Enter a number to find $'

num db ?

num1 db ?

str2 db 10,13,'Found $'

str3 db 10,13,'Not Found $'

str4 db 10,13,'Back in main $'

str5 db 10,13,'Enter number to find its count $'

count1 db ?

str6 db 10,13,'The number of times this number is repeated is = $'

str7 db 10,13,'Now finding the largest number in the array $'

max1 db 0

str8 db 10,13,'The max number is = $'

str9 db 10,13,'Now finding the minimum number in the array $'

min1 db 9

str10 db 10,13,'The minimum number is = $'

.code

find proc

mov si,offset arr

mov cx,6

mov al,num

;mov dl,al

;add dl,30h

;mov ah,02h

;int 21h

l1:

cmp al,[si]

je found

inc si

loop l1

notfound:

mov dx,offset str3

mov ah,09h

int 21h

jmp f2

found:

mov dx,offset str2

mov ah,09h

int 21h

f2:

mov dx,offset str4

mov ah,09h

int 21h

ret

find endp

count proc

mov si,offset arr

mov bl,0

mov cx,6

;mov num1,al

;mov dl,al

;add dl,30h

;mov ah,02h

;int 21h

l1:

cmp al,[si]

je here

notcount:

jmp e

here:

inc bl

e:

inc si

loop l1

mov count1,bl

mov dx,offset str6

mov ah,09h

int 21h

mov dl,count1

add dl,30h

mov ah,02h

int 21h

ret

count endp

maxnum proc

mov si,offset arr

mov cx,6

l1:

mov al,max1

cmp [si],al

jg here

jmp e

here:

mov al,[si]

mov max1,al

e:

inc si

loop l1

mov dx,offset str8

mov ah,09h

int 21h

mov dl,max1

;add dl,30h

mov ah,02h

int 21h

ret

maxnum endp

minnum proc

mov si,offset arr

mov cx,6

l1:

mov al,max1

cmp [si],al

jl here

jmp e

here:

mov al,[si]

mov max1,al

e:

inc si

loop l1

mov dx,offset str10

mov ah,09h

int 21h

mov dl,max1

;add dl,30h

mov ah,02h

int 21h

ret

minnum endp

main proc

mov ax,@data

mov ds,ax

mov dx,offset str1

mov ah,09h

int 21h

mov ah,01h

int 21h

mov num,al

call find

mov dx,offset str5

mov ah,09h

int 21h

mov ah,01h

int 21h

mov num1,al

call count

mov dx,offset str7

mov ah,09h

int 21h

call maxnum

mov dx,offset str9

mov ah,09h

int 21h

call minnum

;\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mov ah,4ch

int 21h

main endp

end main

