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Lab 9



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Date

Q7 WAP to compute $n!$ using Recursive procedure

Sol₂

model small

data

db 05h

db 02h

resw 01h dup(?)

code

start: mov ax, @data

mov ds, ax

mov cx, 2

mov bx, 0

mov ax, 0

call ncr

mov [nres], ax

mov ax, 4ch

int 21h

ncr proc near

cmp cx, cx

je equal

je finish

cmp cx, 01h

je next

cmp cx, 00h

je equal



```
dec ch
finish: ex
call mcr
hcf ex
dec dl
call mcr
ret
ment: xor bx, bx
mov bl, ch
add ax, bx
ret
equal: add ax, 01h
finish: ret
mcr endp
end start
```

Q7 WAP to create and delete file.

```
model small
disk macro msg
    lea dx, msg
    mov ah, 09h
    int 21h
```

endm

data

```
msg1 db, 0dh, 0ah, "Enter file name: $"
```

```
msg2 db 0dh,0ah,"File created $"
msg3 db 0dh,0ah,"Creation failed $"
msg4 db 0dh,0ah,"Enter file for delete $"
msg5 db 0dh,0ah,"File deleted $"
msg6 db 0dh,0ah,"Deletion failed $"
frame1 db 10 dup(0)
frame2 db 10 dup(0)
```

code

```
mov ax, @data
```

```
mov ds, ax
```

```
disk msg1
```

```
mov si, 00
```

```
back1: mov ah, 01h
```

```
int 21h
```

```
cmp al, 0dh
```

```
je next1
```

```
mov frame1[si], al
```

```
inc si
```

```
jmp back1
```

```
next1: mov frame1[si], '$'
```

```
lea dx, frame1
```

```
mov cx, 00
```

```
mov ah, 3ch
```

```
int 21h
```

```
je fail
```



```

    disp msg2
    jmp del
dfail: disp msg3
del:   disp msg4
       mov si, 00
back2: mov ah, 01h
       int 21h
       cmp al, 0dh
       je next2
       mov fname2[si], al
       inc si
       jmp back2
next2: mov fname2[si], '$'
       lea dx, fname2
       mov ah, 41h
       int 21h
       je dfail
       disp msg5
       jmp last
dfail: disp msg6
last:  mov ah, 4ch
       int 21h
       End
    
```