

# File Handling

# DOS Services

- 03Ch : Create File
  - Overwrite the existing file
- 03Dh : Open File
- 03Eh : Close File
- 03Fh : Read From File
- 040h : Write to File
- 42h : Move File Pointer

# 03Ch- Create File

Input:

- Ah = 03ch
- DX = offset file-name
- CX = File Attribute
  - 0h Normal
  - 01h Read Only
  - 02h Hidden
  - 04h System
- Return:
  - On success AX= FileHandle
  - On Error carry will be generated

# 3DH Open File

- INPUT:
  - Ah = 03dh
  - DX = *offset* of the ASCII filename.
  - AL = *file access code*
    - 0 = read-only,
    - 1 = write-only,
    - 2 = read/write).
- OUTPUT: AX=file handle.

# ***03FH* Read a record from a file**

## **INPUT:**

- Ah = 03Fh
- BX = file handle
- CX = record size
- DX = start of the buffer into which data will be read

## **• OUTPUT:**

- AX=number of bytes actually read into buffer.

## ***40H* Write a record to a file (or a device).**

- INPUT:
  - Ah = 40h
  - BX = file handle ;01=display,02=printer  
rest for files
  - CX = record size ;no of bytes to write
  - DX = buffer
- OUTPUT:
  - AX=number of bytes actually written.

# *3EH* Close File

*Input:*

- *AH* = *3EH*
- *BX* =file handle.

# Separate File/Module Linking

- We have two files, IOProc.asm and GetAryElement.asm
  - IOProc.asm has GetNo and ShowNo procs.
- Public: is used in the main program(IOProc.asm) to share the variables and procs in other program( GetAryElement.asm, i.e; Public GetNo, ShowNo,PrevNo)
- Extrn: Means External is used in the sub programs ( GetAryElement.asm) to access those elements which are external ( present in IOProc.asm as public but Extrn as in subprorams)  
Extrn GetNo:Proc,ShowNo:proc,PrevNo:Word)



# Assembling and Linking

- Masm IOProc.asm;
  - Generates IOProc.obj
- Masm GetAryElement.asm;
  - Generates GetAryElement.obj
- Link GetAryElement IOProc;
  - Generates GetAryElement.Exe