

## TOPIC : enum

- User defined datatype, for integral constants.

- enumeration purpose

- Syntax

```
enum tag { member1,  
            member2,  
            =  
            membern  
};
```

members are  
NOT declared

```
enum tag var;
```

```
enum ABC { a,  
           b,  
           c  
};
```

⇒ enum ABC { a, b, c, d };

A real Example: In the student database App consider,  
we need to ~~print~~ list the students whose ~~DOB~~ Birthmonth is Dec.

```
for (i = 0; i < cnt; i++)
```

```
if (db[i].dob.month == 12)
```

DEC

word is MORE meaningful  
than number.

```
printf("%s\n", db[i].name);
```

14

SIGNALRM

ICANON 1<<-

ECHO 1<<-

WORDS are more meaningful than numbers.

1) const int JAN=1, FEB=2, MAR=3, APR=4, ----- DEC=12;

2) enum MONTHS { JAN=1, FEB, MAR, APR, MAY, -----, DEC }; ✓

3) #define JAN 1  
#define FEB 2  
≡

All enum variables are of same size like integer  
may be 2 or 4 bytes

# FILE handling

What is File.

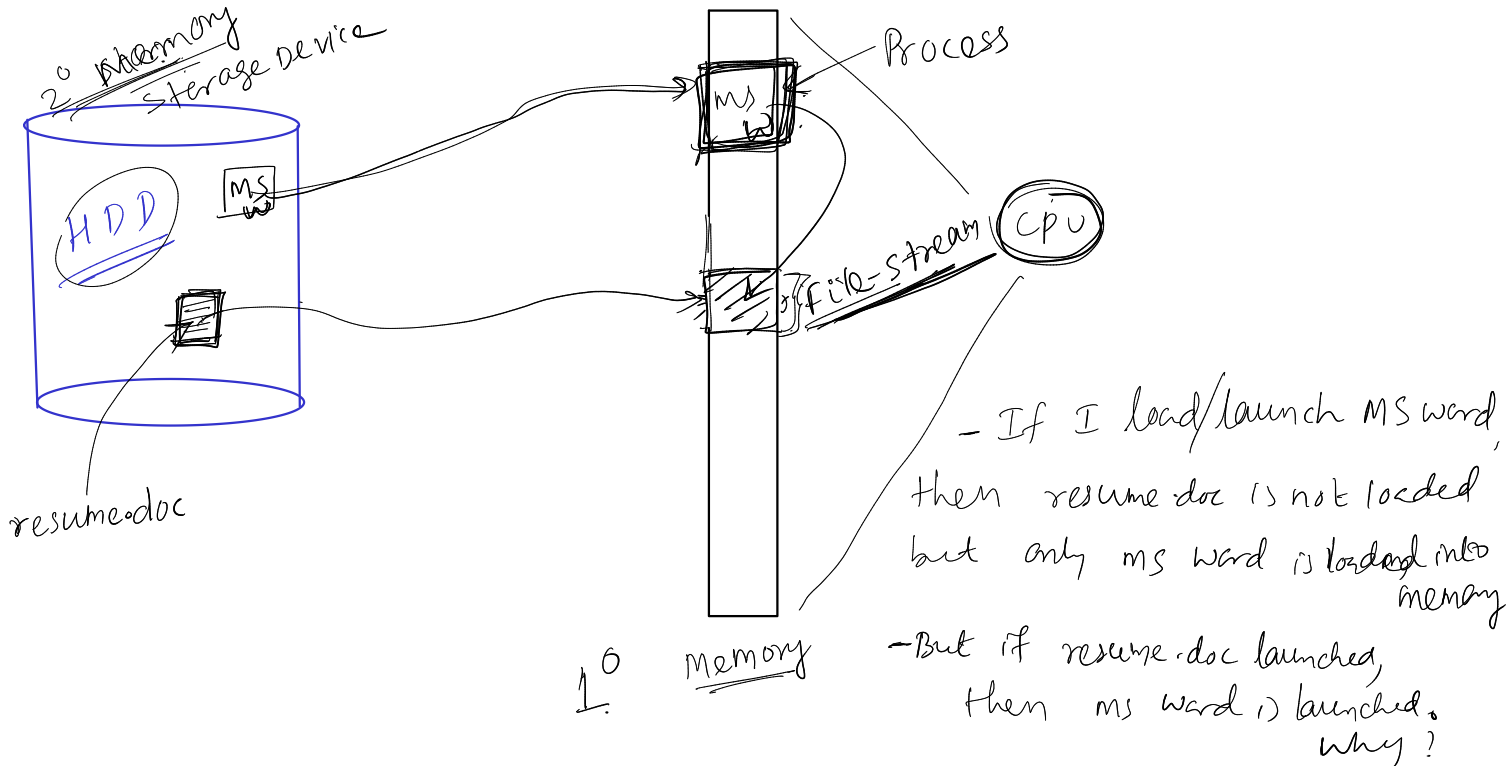
- data in Disk (storage device) like, HDD, CD, DVD, penDrive, SSD.

What is file handling?

- App reading and writing on a file is known as file handling.. e.g. Editor, ImageViewer, Media player,

Why we need to learn file Handling?

- our app should open file and use the data of the file (for read and write), we say our app is a file handling app.



files

Apps / executable files / launchable

<u>pic.jpg</u>	vs	<u>ImageViewer</u>
<u>res.doc</u>	vs	<u>MS word</u>
<u>music.mp3</u>	vs	<u>media player</u>
<u>video.mp4</u>	vs	<u>VLC player</u>
<u>url.html</u>	vs	<u>chrome</u>

If music.mp3 is renamed as music mpy then,  
it does not get converted to a video file

Extension of file in OS helps the OS to recognise (find) the associated app to launch

# File Handling in 'C' Programming is

4 session + 3 session

File stream Access by our program

fopen()

fclose()

fgetc()

fputc()

fgets()

fputs()

fread()

fwrite()

fscanf()

fprintf()

fgetwc()

fputwc()

fseek()

feof()

ftell()

rewind()

Random Access