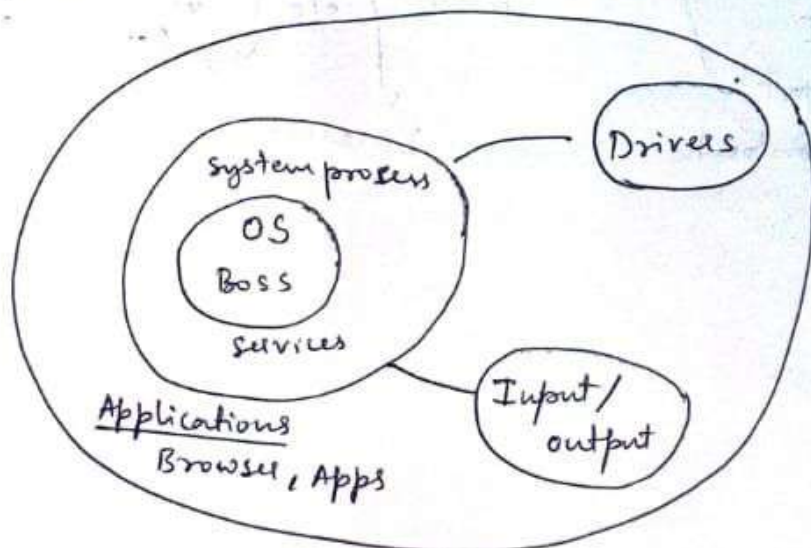


⇒ what is an operating system?

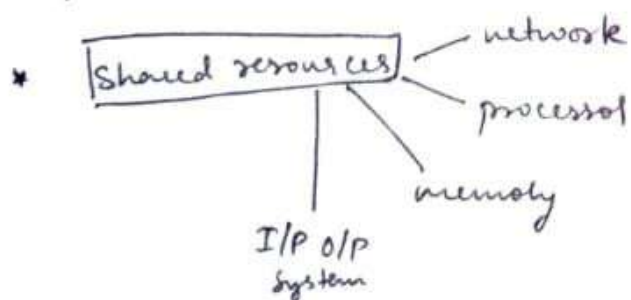
Mobile
Android
IOS

Laptop / Desktop
Windows
Linux
mac

- * operating system is a boss of computer
- * All process
All device } will be run only if the operating system approve's
- * operating system is a core of the system

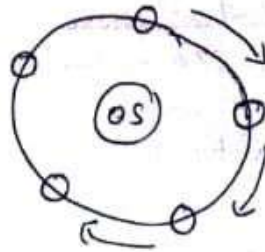


- * operating system regulates the traffic
- * If any process misbehaves OS will terminate ² & remove from the memory
- * permission control is also taken care by operating system



There are different Algorithms

1. Round Robin



without an operating system if you want to use your PC it feels very difficult.

Because without OS you should write the code for everything like
to run the process
to allocate the resources
etc

the 1st building block

① → Boot loader.

[when you ON the system BIOS will check every component of every part are working correctly]

* when you ON the system after 2 to 3 sec you can hear the beep sound that means everything is correctly working

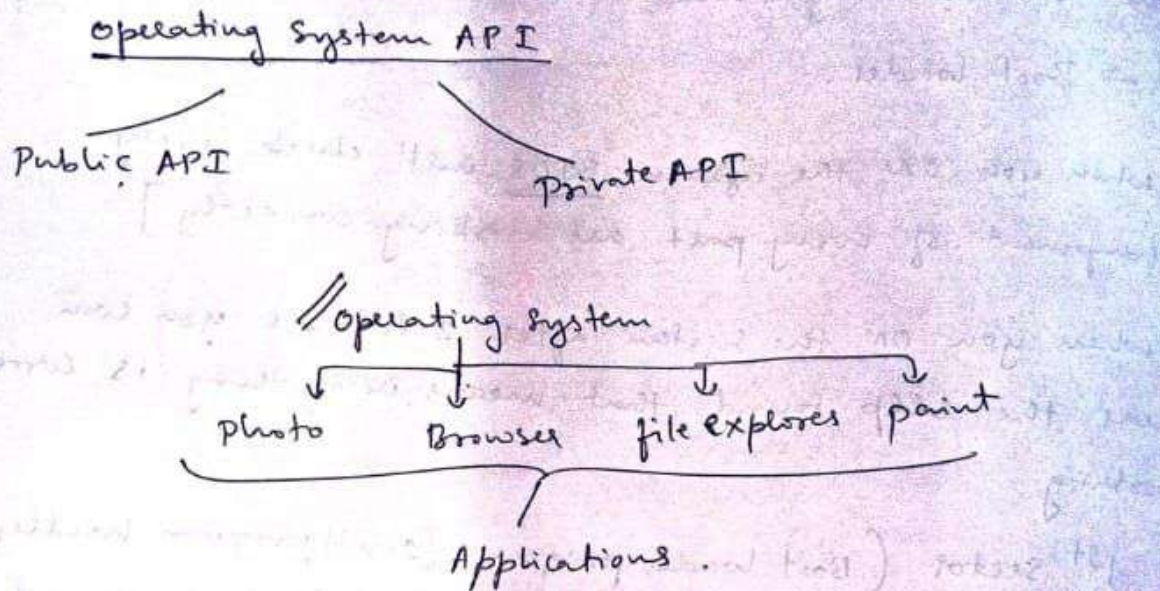
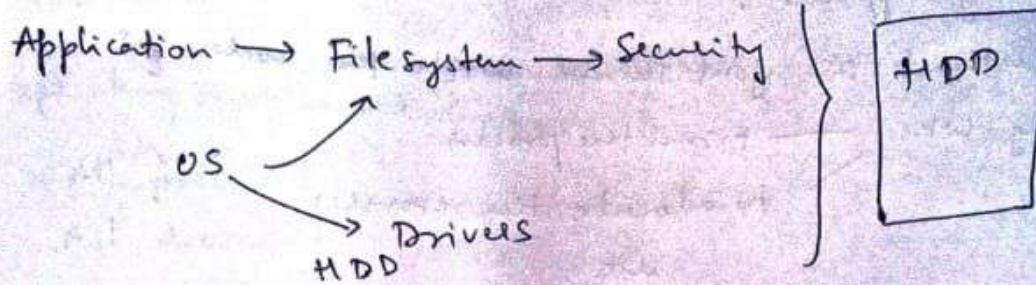
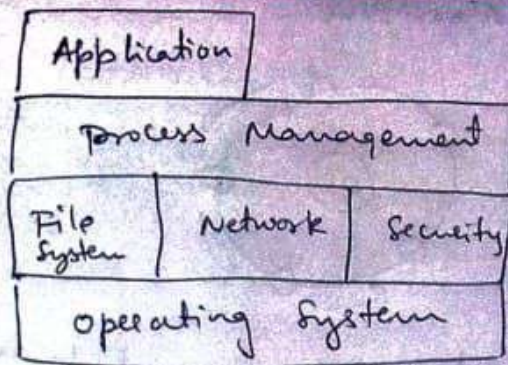
② 1st Sector (Boot loader program [small program hardly less than 512 bytes] this should load to the RAM and run)

* Boot loader contains the information about the OS files like where they present in harddisk

③ Command Line Interpreter.

linux } open source OS's
Android }

∴ you can find the source code on the Internet.



* Don't Know your System

Task bar [right click] → Task Manager → processes
 { program under execution }

- * Apps { contains UI }
- * Background process { not contain UI }

→ performance → CPU
 memory
 Disk
 Ethernet
 ⋮

thread
 * It is a single sequence stream within a process

Device Manager

List of Input & output system that are connected to your system.

Task Manager

Processes

Performance

App history

Startup apps

Users

Details

Services

Settings

Type a name, publisher, or PID to search

Processes

Run new task

Name	Status	12% CPU	69% Memory	3% Disk	0% Network
Apps (2)					
> Google Chrome (14)		0.1%	448.7 MB	0.1 MB/s	0.1 Mbps
> Task Manager		1.0%	58.2 MB	0.1 MB/s	0 Mbps
Background processes (76)					
> AMD Crash Defender Service		0%	0.3 MB	0 MB/s	0 Mbps
> AMD External Events Client M...		0%	1.2 MB	0 MB/s	0 Mbps
> AMD External Events Service ...		0%	0.1 MB	0 MB/s	0 Mbps
> AMD Software (4)		0%	14.7 MB	0 MB/s	0 Mbps
> Antimalware Core Service		0.1%	3.0 MB	0 MB/s	0 Mbps
> Antimalware Service Executable		0.6%	121.8 MB	0 MB/s	0 Mbps
Application Frame Host		0%	1.3 MB	0 MB/s	0 Mbps
COM Surrogate		0%	0.7 MB	0 MB/s	0 Mbps
CTF Loader		0%	2.6 MB	0 MB/s	0 Mbps
> DDVDataCollector		0%	7.5 MB	0 MB/s	0 Mbps
Dell Analytics		0%	14.6 MB	0 MB/s	0 Mbps
Dell Data Manager		0%	18.5 MB	0 MB/s	0 Mbps
> Dell Data Vault Data Collector ...		0%	0.5 MB	0 MB/s	0 Mbps
> Dell Data Vault Rules Processor		0%	1.5 MB	0 MB/s	0 Mbps

