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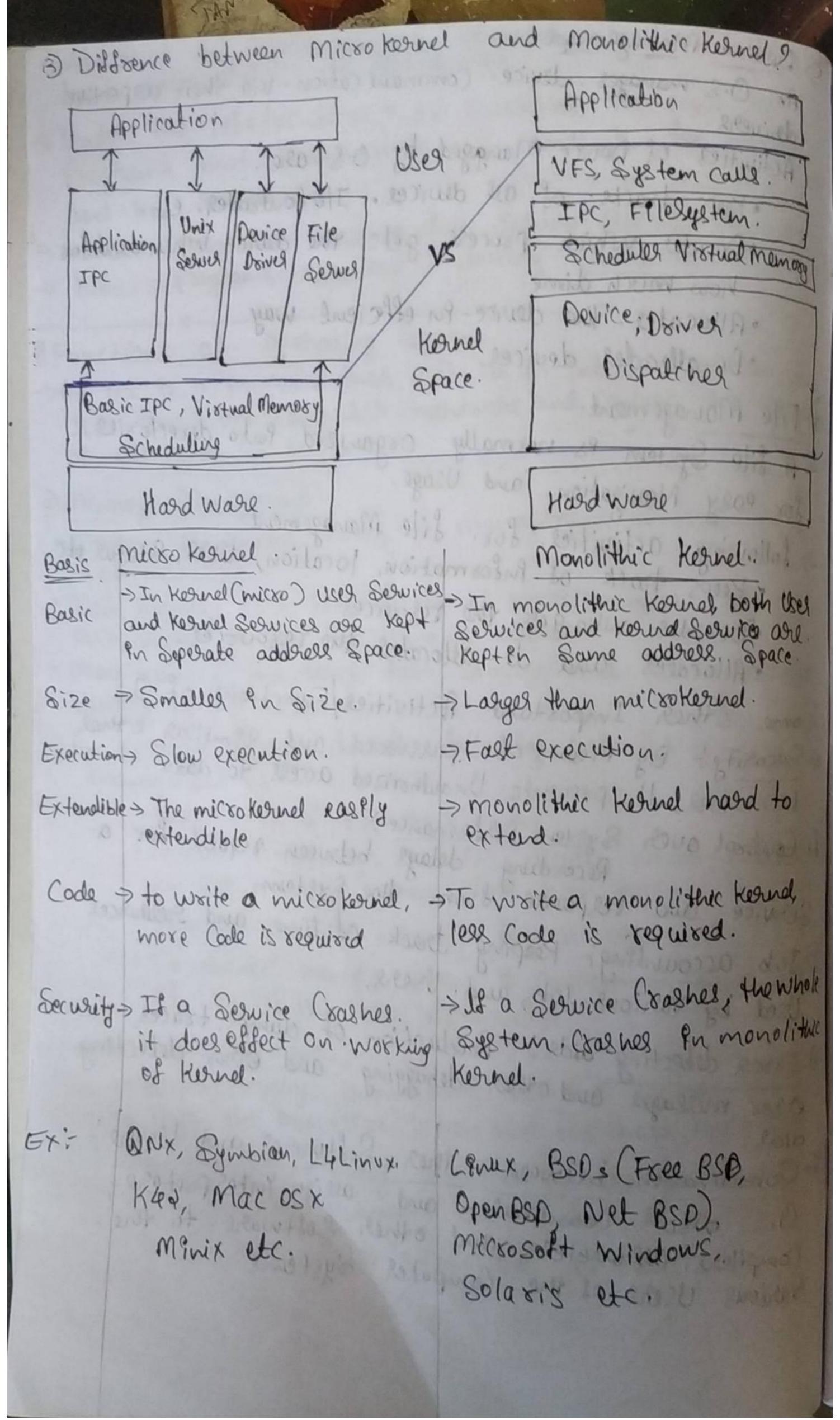
· Duce the boot loader program is detected and booked Into the memory. Blos gives the Control to 14 = So, Pn Sample terms Blos londs and executes the MBR Bootloades. D WBB . MBR Stands fox Master Boot Record. . It is located for the 1st Sector of the bootabile diek, Typically /dev/hda. 108 dev/sda. · MBR PS 1898 than 510 bytes Pn Size. This has 3 Component Desimaly boot loader Puso. In Sixst 446 bytes 3) postition table Puso. In vext 64 by tes 3) mbs validation Check Pin las 2 bytes · IF Contains Puformation about GRUB (Ox LILO Proofd System) · So, In Simple teams MBR loads and executes the GRUB bootloades. · GIRUB Stands for. Grand Unified Boot Loader. · Is you (we) have multiple kernel funages firstalled on our System me con choose which one to be executed. · GROB desplays a Splash Screen, maits for a few Seconds is we don't enter anything, It loads the default kernel Emage as Specified. In the grub Configuration file. . GIRUB has the knowledge of the System (the Older Linux loads) LILO didn't anderstand file System). . GRUB Consignation file is /boot/grub/grub/grub. Conf. 9+ Contains both Keenel and Inited Image. · So, In Simple terms GIRUB just loads and executes kernel and fultra images · mounts the root file System as specified en the goot = in Grub. Conf Program which is always /sben/enit · Kernel executes the first program to be executed

. the tornel than establishes a temposary root file System Using Enitial RAM Disk (Pristra) Until the real file System es mounted. "Pritad" also Contains necessary drivers Compiled Puside, which helps 9+ to access the hard drive partitions and other hard ware. The Kernel 95 often referred to as the Core of any O.S. It has complete Control over everything in our system. Thomas there is displayed shirt > At this point, our System executes run level programs. At one Polnt It Would. 100k for Enit file, usually found at letc/ Pust tab to decide the Lanux runlevel. > Modern Lenux Systems use Systemed to Choose a run level Instead. · Run level 0 9s matched by power off, target [run | evel 0. target 9s a Symbolic link to power off-target] · Run level 1 9s matched by rescue target, Single User Mode. · Run level 2. -> multi User mode, without NFS. · Run level 3 > Full multiliser mode. · Run level 4 > Un Used, Not-Used / User-definable L Fox Special · Run level 5 > Full mode [Same as Run level 3+ des play manger] · Run level 6 -> Reboot [Reboot the device]. 6) Run level Programs: · When the Linux System is booting UP, we see Various Services getting Started. Ex: "Starting Sendmall..... OK! those are Runlevel programs, executed from the runlevel directory as defined by our runleud. · each of run level has Pts own directory. >Runlevel 0 -> letc/8c.d/8co.d/ > Run level 1 -> letc/ &c.d/&cl.d/ -> Run level a -> / etc/ &c.d/ &ca.d/ > Runlevel3 -> letc/8c.d/8c3-d/ -> Run level + -> [etc/86-d/864-d] -) Run level 5 -> letc/8c-d/8c5-d/ > Run level 6 -> (etc/80.d/806.d/

· 1. Note that the exact location. Of these directories Vago 9 from distribution, to distribution. >> Under the letc/80.d/80*.d/ disectories, we could see Programs that Start with & and K for Starte, and kill suspectively. D> Startup Programs are executed during System Startup.

Nill Programs executed during Shutdown. 3 Functions of operating System. > An o.s Ps a program that acts as an finterface between the User and the Computer hardware and Controls the exercis Of all kinds of programs. 2) Memory Management: > Memory Management refers to management of Primary or main memory. · Main memory 9s a large array of Words, or bytes where · each word or byte has its own address. · Main memory provides a fast Storage that Can be accelle directly by the CPU. 3) An Operating System does the following tasks four Memory Management · Keeps track of Primary Memory. · In multi programming, the O.S decides which process will get memory when and how much. · Allocates memosy when a project requests. · De allocates memory when a process no longer need Desocessor management: In multiprogramming, environment, the O.S decides which Process gets the processor. When and for how much time · > An O.S. does the following activities for Processor mangent · keeps track of processor and status of process · Allocation and de-allocation. of Proceelsos to a process.

Device Management! An. O.S manages. device. Commani cation. via their respertive drivers. - Activities of Device Managed by O.S and. · respect + saites. 08 all devices. I/o Contratter, etc. Decides which process, gets. the device when airdison how much time. · Allocates. the device for efficient way. · De-allocates devices. d) File Management. > A file System Ps normally organized Puto derectories. for easy Navigation, and Usage. -> following activities for file Management. · Keeps track of Purformation, location, Uses, Status etc. · Decides who gets the resources. · Allocates and de-allocates the resources. Some other Impostant Activities/Functions of O.S. @ Secweity: By means of password and similar other techniques, It prevents Unauthorized acress to data. (8) Control over System perdoxmance: Recording delays between request for a Service and response & som the System. 3 Job accounting's Keeping track of time and resources Used by Various. jobs and. Users. @ Essos detecting aids: Production of dumps, traces, error messages and other debugging and other detecting aidl. 1 Cooxdination between other Softwares and Users! O.S. also Coosdinate, and allign Interpreters; Compilers, als emblers, and other software to the Various Users of the Computer Systems.



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W. Discuss on VEFI, Legacy, Blos. O UEFI: Unisied. Extensible Fismwage Interface (UEFI) Ps a specification for a Software Program that Connects'a Compater's dismware to 9+5 0.5. OUEFI is expected to overtually replace. Blos but it is. Compatible with it. 70.5] > EFI (extensible Firmusse UEFI Interface of vivolo 2019 19 Bell Firmward OF EFT Intel developed the oxiginal Hardware] Lower 219 genetico -> UEFI functions via the firm ware installed on a. Computer's motherboard. Like Blos, UEFI is firstalled. at the tune of manufacturing and is first Program that runs when booting a Computer. -> It Checks to See which hardware Components are attached, wakes up the Components and hards them over to the o.s. - the new Specifications addresses the Several Temitations 07 Blos; fonctuding reltrictions on hard desk partition. Size and. the amount of time Blos takes to perform. its tasks. > Most of Modern Computer Systems are equipped to support both tradetional Blos and UEFI, although Intel Corp. has Stated. 9ts Intention to phase out Blos Support. In newer personal Computer's PC's: while down town them or cottecture. D. Legacy: A Legacy Systems 9s an old or out-dated System, technology or Software application that Continues to be used by organization, because it still Performs the functions 9t was quitially quitended to do. Somerally legacy Systems no longer have Support and maintenance and they are limited in terms of growth Cannot be easely replaced. However they Scanned by TapScanner

-> Legacy Systems are often essential with Pu an organization The Basic Input Output System '85 a Very Small piece of Code Contained on a chip on our System board. When we Start our Computer, Blos is the first SIN that runs, It identifies our computer's hard ware Configures it, tests 9t, and Connects 9t to 0.5. for further Instructions. ⇒UEFI 88 a Successor to the legacy PC Blos, aiming to address 9+5 technical Ismitations. Discuel on Lenux, Windows, Mac 05. · Wendows #1 Basic Diffrence and Kistory. - Swindows was -> This O.S & som Apple -> It was Pritially Sixst released Pn 1985. Stands older than developed by Finnish University, released in I was Supposed to windows, streleased be graphical user 1991. and designed for Puterface on topod in 1984. GiNU developers. IMS-DOS. >It began as a GUI GNU developers later > All features of right from 9ts Integrated 9+ ento Lewe ms- Dos were later quiception. Integrated Enwindows 7 In 2005 the design > It is Open to Consumer 95. release. and Structure of mac and every one. Con It was huge success was changed to Use as per the. for and led to Intel X86 based Specifications. Windows transition, on chitecture. # File Structure -> Windows follows a > the file Structure of -> Linux has Completely disectory structure macos a is Commonly diffrent filestructure to store the diffrent known as macos x; diffrent filestructure was macos x; John. Windows and Kinds of files of the Useq. > It has logical drives > If you dig into and Cabrinet drawers. MAC's hard diet. through finder you It also has folders.

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Some Common folders. like documents, music video et c. All those Att. files Can be Stored on these folders and also new folders. Can be Created. It also has a files which can be spread Sheet or any application Program. > It Can have extension .txt ojpg etc. -) Windows also Provides Recycle bin? where all deleted files. Can be Stored. it can be Consigured to an exease 9+5 Size.

dexectosies. -> The good disectory of MAC may encounted when they visit their own MAC book. -> we can explose the. file System and discretory. Structure. by going to

disectosicslike. (Application /developer, Isbin, Itmp. etc.

Coveraged to wirel.

les intest 20 e) a les unes

a capinos JAMA

DIt was developed. when a dissorent. code bass. It stores data In the form 08 tree: there is a Single Sile. tree and all your driver are mounted over. this tree.

>Wendows Registry. > mAc. Stores. all is a master database. that is Used to Store all settings on your' Computer.
> It is a Storing. oul User Puformation. with its pall woods, and device relate Putormation. > the registry also has an editor which allows. you toview all kys. and Values 08 even. drivers if necessary.

to the ARegistay. application Settings Pura. Series of plist files, which have the Various Préférences folder for MAC.

-> The plist diles Contains all properties En either Plain text or brany format.

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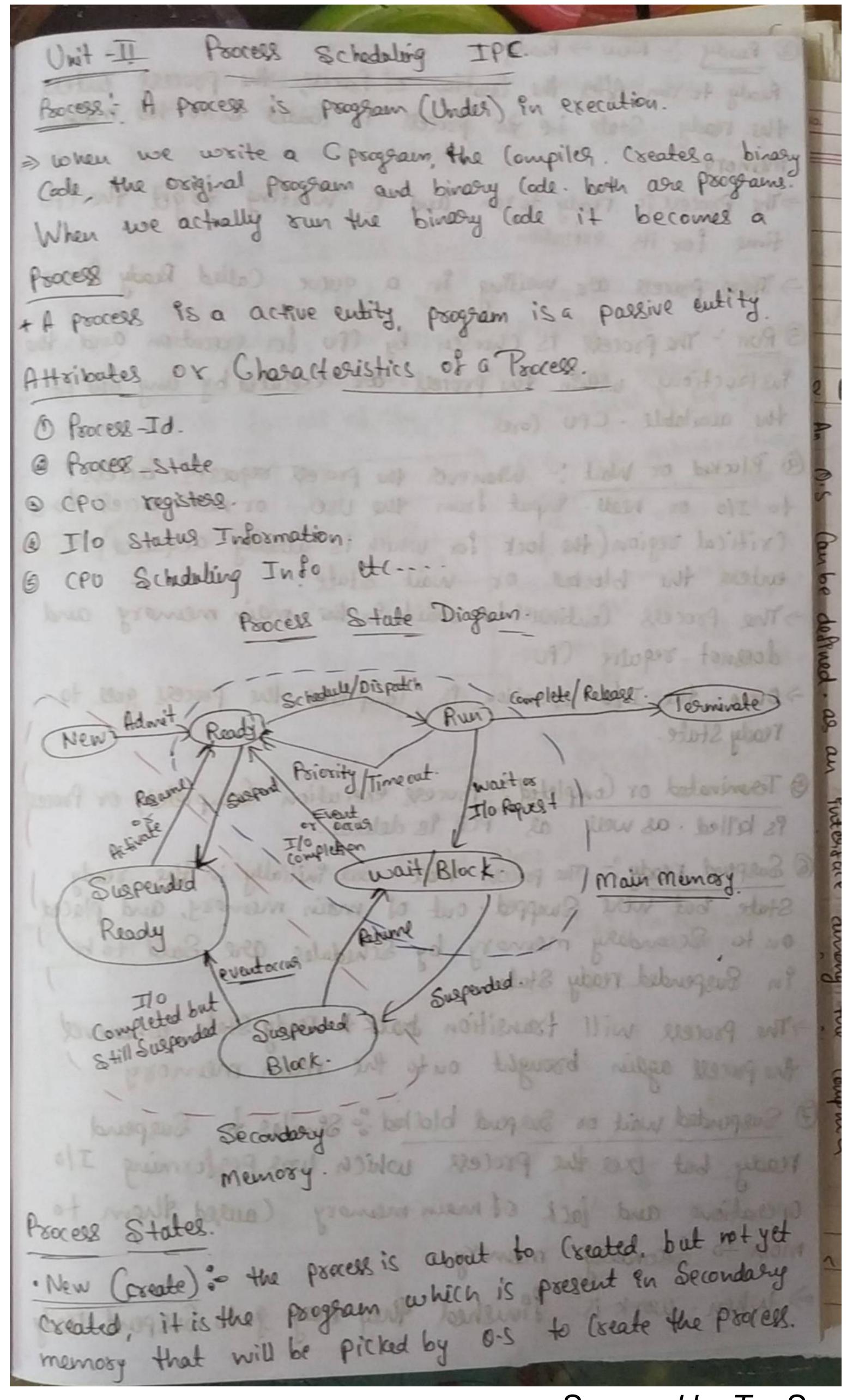
-> Linux also does not have a Sperif is registry of its own > All application Setting is stored. on a Program basis. Under the different. Users in the . Same hierarchy format of the files being Stored. There is no (entralized databall for. Storing these. details, and so Periodic. cleaning is also not required.

Inter Changabile Interfaces -> Lanux Ps Easy to -> Wardows Interface. -> MAC has facility Switch gutestale to build bridge was not guter (vargable you can Switch the Undil 2008. Vistual network >Windows xphad Porteg facel. This Can envisonment, without Same gurprovements having to carry all done by going to but not pag. Pustallations. There System. préférences Start Menu, taskbas and managingthe agre Utilities like System tray and interfaces. GINOME and KDE Windows Explores. which helpin catering to these needs. They help in focalting on diffrat aspects. # Command tourinal. >A terminal or > LPUUX als o Provides. ->MAC Provides a (ownered promptis Console asterminal a black box idealy a terminal we Used to execute. Application. : Can Lindit at Commands. It has a Cousole. Command-line, prompt or Application > Utilities. -) It is also called the Windows Command. > Command line Used Processor. 8+ is 7 In addition to this to type Commands. . Used to execute there is only a shell Prompt will provide us Commande and Prompt. the most With Some In formation diffrent batchfile. Common Shell and also enable -> If Canalso bp. Used for administrative > A terminal is an Used is bash Usto van Commande It dosines how the actual Enter face + erininel will trouble Shoot and behave and look that will provide. Solve au Windows the modern GUI When it is run issueg. · 1 40 800) 24 35 2 AS WELL as well.

8. List the Steps to check. dusk passitions in windows.			
C I WILLIAM CHILOSOL			
@ Right Click on This pc1			
3 Choose manage from the populp Menu			
@ Navigate to Storage > Disk Management in Navigation			
Pairel.			
F. List the Steps to Start or Stop. Services 9n Windows.			
1) Hit the Windows Key +R to open the "sun"			
WINDOW-			
1. Type Services msc fin the open. box.			
6). Services dialog box/wendow will openis			
@ Sclect the Service to Start Stop. (3) Choose the relevant option. to operate on those Services.			
3 Choose the relevant option. to operate on			
those Services.			
94 353 White C. 1944 A 80 White			
8. Commands to Check disk pastitions.			
(b) open a Command Prompt.			
Start > Run > Cmd. model of Man			
(a) 0.1. A			
C: (Useas) Administrators. Sdie kourd.			
3 Scheet the disk, we wish to View. (any valid desk) DISKPART > Select desk 1			
DISKPART > Select dock 1			
(a) View the detalls of . Selected die k.			
DISKPART > dotail disk.			
11 17 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
-busing folder			
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Diffrence blw FAT 32 and NTFS. -> A file System. Provides. the way of organizing file. - FAT: File Allocation Table. NTFS: New Technology File System.			
Characteristics.	FAT 3a	NTFS.	
· Structure.	-> Semple.	> Complex	
· Maximum Number of Characters Supposted In a file Name	83.	255	
· Maxemum file Size	-5 4 GB	-> 16TB	
· Encryption	> Not encrypted.	Encrypted with. encrypting File Sam	
· Security.	-> Network. type	-> Both local and Network type.	
· Fault Tolerance.	> No provision for fault tolerance.	-> Automatic t-souble- -Shoot is present.	
· Compatabality with 0-s	> Woodows 95/98 /2000/2003/xp	-> Werdows NT/AK/W macOs x, Linux	
	> Not allowed	Sapposts file	
I UIT S WE A		-> Relatively higher the other File Systems	
11 . 10 . 1	Not Present.	>Present:	
· Conversion	Allowed.	>Not Allowed.	
> A processistere instance of Program thatis being executed by one or many threads.			

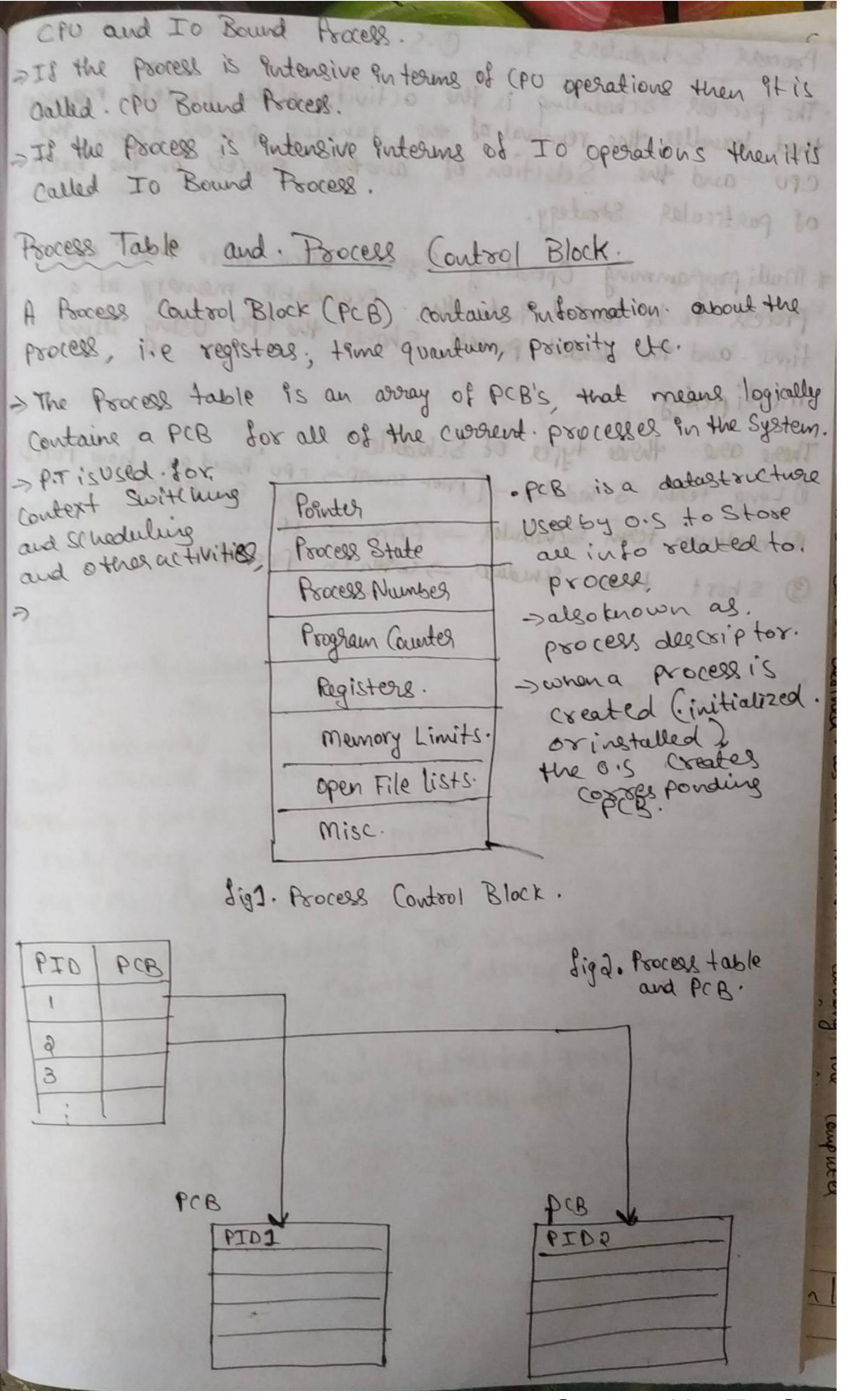
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@ Ready :- New > Ready . Folded . Ready to run. After the Greation of Process, the process enter the ready State i.e the process is loaded in to the main the life down memory. memory.

The process is ready to run and is waiting to get the cro time for its execution. > These process are waiting in a queue Called Ready Queue : 3 Run: The process PS Choosen. by CPU for execution and the Pustouctions. within the process. one executed by any one of the available. CPU Coxes. @ Blacked or Wait: - When ever the process sequests access. to I/o or needs. Input from the User or needs access to a (ritical region (the lock for which is already acquired) it enters the blocked or wait State. > The Process Continues to wait for the main memory and doesnot require CPU. -> Once the I/o operation PS Completed. the process goes to ready State. 3 Tourinated or Completed: Process execution Completed, or Brown Ps killed as well as PCB 9s deleted. 6 Suspend ready: The process that was Pritially in the ready State but were Surpped out of main memory, and placed on to Secondary memory by Schedules are Said to be in Buspended ready State. The Process will transition brack to ready State whenevel the process again brought onto the main memory (7) Suspended wait or Suspend blocked is Semilar to Suspend ready but uses the process which was performing I/o operations and lack of main memory caused them to move to Secondary memory Strished they may go to Suspend



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