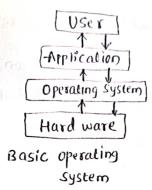
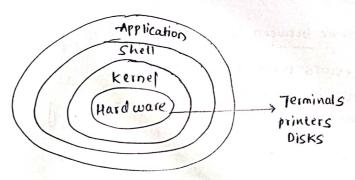
Os) operating systems architecture?

- * Operating systems architecture refers to the overall design of hardware and Software components and their operational effectiveness as a whole.
 - 4 Types . 1. Monolithic architecture . 3 Micro kernel architecture.
 - 2. Layered architecture. 4. Hybrid architecture.



02) What is Linux Architecture?

- The architecture of Linux is composed of kernel, Shell and application programs that is
- * Hard ware: Physical parts of a computer, such as central proccessing unit, monitor, mouse, 400



Kernel: The Kernel is one of the core section of an operating system. It is responsible for each of the major actions of the Linux OSI

* monolithic kernel * Micro kernel * Exo kernel * Hybrid kernel

Hardware . CPU, HDD and RAM.

Shell: It is an interface among the kernel and users. It can afford theservices of kernel. It can takes commands through user and runs the function of kernel.

* graphical shells + Command - line shells.

primary Features of Linux os:

1 Portable: Can perform different types of hardware of the kernel support any.
2 Hierarchial file system: affords atypical file structure where user files or system file
3 Open Source: Os source code is available freely and for enhancing the capable of os
4 multi programming: rwore than one application can be executed at the same time
5 Security: Security systems with various features of authentication passed protection
6 Multi user: more than one user can use the resource. RAM, memory or application.
7 Sheu: a unique interpreter program. this can be applied for executing comminds

Drawbacks of Linux;

- * Hardware drives; most bace assue white using linux, various componies of hardware prefer macor windows
- * Software alternative: MS office, photoshop manyother tool software not available
- * Learning curve: Linux is not user-friendly os. confuse many beginer understand linuxis complex.
- * Games: several games are developed for windows but unjortunately not for Linux.

what is computer system BIOS.

BIOS. basic input loutput system is the program a computer's microprocessor computer system afterit is powered on. It also manages data flow blothe uses to start the computer's os and attached devices, such as the hard disk , video adapter, keyboard, mouse a printer * Bootstrap loader + Software Arivers + Complementary metal-oxide * power on self test Semi conductor- Setup

Difference blu 132-bit 05 and 64-bit 0s.

- * A 64-bit processor is more capable than a 32-bit processor bcz it can handle more data
- + A 64 bit processor can store more computational values, including memory
- * A 32 bit 05 can store and handle lesser data than the 64-bit 05 it addresses 498 of RAM

what are the difference between i3, is and i7?

core is cpus have four cores core it model has Four cores.	- 1	i3	i5	
	NO OF COTES	2	4	4
		yes o	No	43
	turbo boost	No	468	45
	K model	No	468	443
t driven				11

what is an os interrupt driven?

An operating system in which the interrupt systems is the mechanism For reporting au changes in the states of hardware and software resources. are the events that include new assignments of these resource to and such changes meet work-load demands.

what is interrupt handling?

Interrupt handling is a key function in real-time software, and comprises interrupts and their handlers. Only those physical interrupts which of high enough priority can be centered into system interrupt table

Interrupt is the method of creating a temporary halt during program execution & allows peripheral devices to access the microprocessor

Interrupts are commonly used to service hardware timers, transfer data to and what are the function of interrupt? (eg. disk 1/0) and communication interface (eg UART, Ethernae) handle key board and mouse events, and to respond to any other time sensitive events as required by the application system.

Linux directory hierarchy

Primary hierarchy root and root directory of the entire file system hierarchy Essential command binaries that need to be available in single user mode; for all users eg. cat. 15, cp, Boot loader files, eg. kernels, Inited, Device Files, eg. /dev/null. / dev Isdal.

bin / dev / etc/ usr/ home / lib/ sbin/ tmp/ var/ log lock tmp bin / man / lib/ local share Itmp temporary space (typically (big binary or executable programs user related program letc - system configuration files usy /home - home directory. default ug Files Iva 10pt - optional third party software

01) Create a directory 'test' -> mkdir, cd test nano Files. bath touch Files. tests. txt' & touch Files. txt, cat > Files. txt, v; Files. txt

03) write the file test1.txt of test2.txt -> nano, vi, or cat

04) print the File content - cat Filename

05> print the File word count -> WC Filename

06) delete a file --> rm Filename

07) delete an empty directory - moder-firename roadir directory

087 delete non empty directory -> rm - 15 dirname

Hands- on

01) create users - test 1 & test 2

02) Login with these two credentials of the newly created users.

13) execute 'Users' command - It will show the list of logged in users occach.

04) Find path for the sudo users