# Operating System Assignments

#### **SUBMITTED BY:**

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**Roll #** MCSM-F18-074

Class: MCS-4A

**Submitted to:** 

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(Lecturer)

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_	"Ma'am Mahaukh"
	Superior Group of Colleges

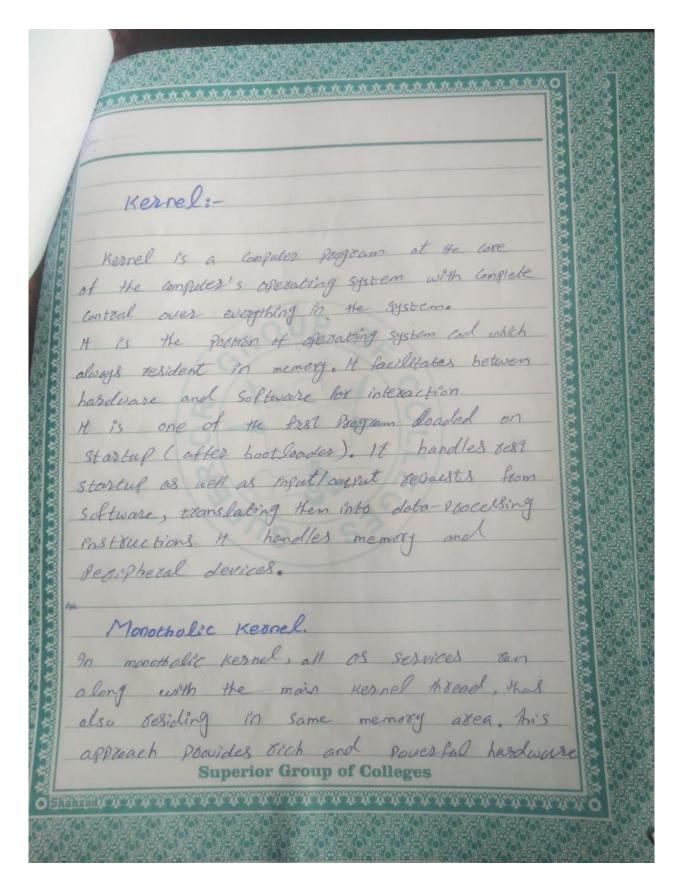
### Viotualization: -

Jirtualization is a process of running or virtual instance of a computer system in a layer abstracted from the actual hardware most commonly, it reflers to running multiple operations system on a computer system simultaneously.

## Virtual machine.

Virtual marchine is the emulated equivalent of a computer system that ours on top of amother system. Virtual machine many have access to any number of resourses live. Confuting power, one as more physical as virtual device for storage, a virtual or real network interface, as well as any clevic Such as video cord, use devices, or superior Group of Colleges

AL MANUAL MA Other hardware that are shared with the vistual merchine. Advantages ! -2. Pratection. 3. Software testing. 4. Job nigration. 5. vistael Storage 6. Backup. Levels 3-1. Application level. 2. Library Sevel. 3. Operating system level. 4. Hardware abstraction layer 5. Instruction Set architecture Superior Group of Colleges THERE IS NOT BE TO SERVE TO SECURITY OF THE SE



Microkernel 3nicookernel is the team describing on approach to operating system design which functionality of the System is moved out of toaditional Kernel into a set set of Sesvers. that communicate through a minimal pernel, leaving as little as gossible in System space and as much as possible in user space. Advantages:-· Eeasier to maintain · Patches Can be restel en a segrate instence, and then swaped in to take over a production Postances · Rapid development in general Disadvantages sa large number of System Calles and context Switches Slow down the System **Superior Group of Colleges** 

access. Some developers, such as UNIX developer ken mompson, merintain that it is easier to implement a monalithic kernel then milookernels Disadvantages :-· Monolithic kernels are . He dependent between System Component · A large vernel Can before very difficult to meninterin. Advantages: -· Since there is less Software involve, so it Ps fast . · less code, generally means fewer buggs which can tounslate to fewer seculity. Problems. **Superior Group of Colleges** 

# nix Operating System Unix is an operating system which vas first developed in 1900's and has been under confaint development over since Unix operating system have commend live interface which make the Computer work. UNIX System also have group ical uses interface Similar to microsoft windows Features of unix. · Multi-ases Capability · Multi- tasking · Pootability · Security · Communication · Hierachical File structure Superior Group of Colleges

