2CB03358

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Test - 01

Module - 1

2a. Virtual Machine

Virtual Machine is a System Software and Virtual Interface between computer user and computer hardware.

* virtual machine ~~ab~~ is that a abstracts the hardware. ~~to the os~~.

It create Virtual environment to the process as it has its own processor and own memory.

* It helps to maintain the time process and the interface b/w software system and hardware.

* VM ware was first introduced by IBM in 1972

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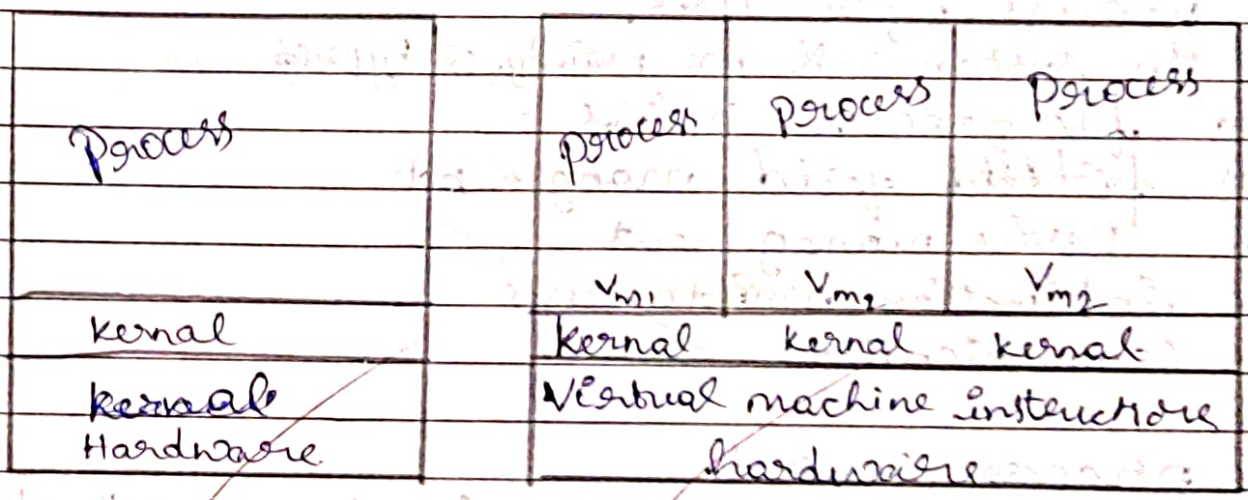

VM-

Virtual Machine

~~In~~ Virtualization ~~Machine~~ the host ~~invites~~ the Virtualization is the host for the ~~process~~ VM Virtualization is the main host for the virtual machine. And other all VM are called as guest processors in the process.

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VM - Virtual machine

Virtualization is the main host of VM. in the Virtual Machine the all the VMs are called Guest VMs.

Virtual Machine

a) Virtual machine is that which is virtually creates a illusion so that the it assumes that it has its own memory, process and it has its own Processor and Kernal for it.

b) System call is process of giving commands for the process. it is use interface to manage the process by the users.

* In system calls we mainly 5 types
  * process control
  * file field management
  * Device management
  * information maintenance
  * communication

a) process control

process Control we input, access the data and it has fork(), enter(), waste and exit() commands in the process control

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2) field management

field management refers to the one of the system calls it manages the field process in the operating system

3) Device management
in device manage

4) information maintanance

5) Communication:-

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Module - 2

3 a) Inter process Communication is the process is done by it self and process is been shared by them selfs in inter process communication we have two methodes
1) Indendent
2) Coendent

1) Independent :- it can't affected by other and also it will not be effected by it self it is independent.

2) Coendent - it is affected by the other entitys and also effects by it self.

* Inter process communication it share the memory and also passes the messages to the other enitys so the inter process will be clear and it's the process has been communicated between the process.
* Inter process communication is mainly for message passing and sharing process to the memory.
* Inter process is the communication between two threads of same process

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Message Passing - In inter process Communication we see that the message has passing through the entities and the messages are beeing shared to the process. in Inter process Communication it make massage passing whether the process has been completed by the processor and inter process operation in the process

Shared Memory - In, by the shared memory we can share the memory or space to the other entity for the process, it is done in the Inter process Communication, it communicates with other entitis. It shared the messags to the other thread of the inter process communication

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3b Multi-threading models

Multi threading is the process between user mode & kernal

we have two types in Multi threading

user-mode - in user can't access the nodes directly and the Operating System has the direct access to the nodes

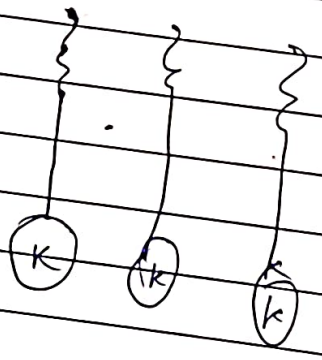
kernal mode - In kernal it access the node without any interupt or any other disturbances.

in Multi-threading we have 3 types

1 one to one
2 one to many
3 many to many

One to One

One to one treading the node is directly pass to the kernal to the distination it can't be interupted an disturbed easy.



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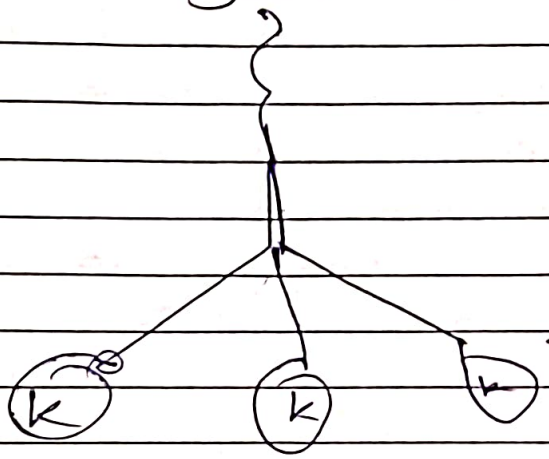
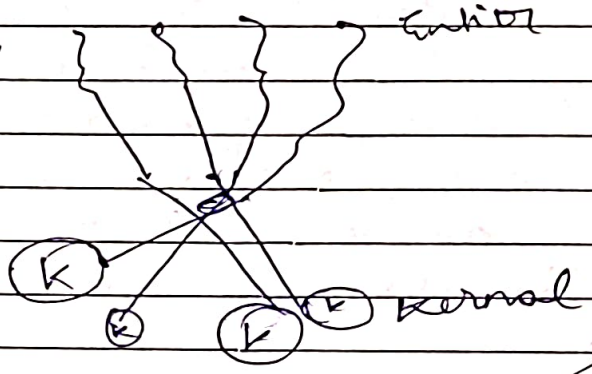
2) One to many



One to many is the process can ~~be~~ one node many kernals it pass the process to many kernal it has no care for getting deleted by any chance.

3) Many to many



* ~~It~~ has easy to acess the for reach the user.
* it has many braches for it so ~~does~~ it a singel node is destroid it can complete it process easyly without any intrupt

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Quiz

1. a
2. a
3. b
4. b
5. b