Operating System	Name : G. Pushpak
-A ssignment-I	Roll no 1 160118733107
identing a system with 5	process and 3 resources

O considering a system with 5 process and 3 resources type A has 10 instances B has r and chas 7.

Suppose at time to following snapshot of system has tshow Available Max

Allocation Process A B C 3 32 7 53 Po 3 2 12 0 0 3 02 P2

i) What will be the context of Keed Matrix

The context of matrix Need is defined to " Max- Allocation!

Meed

ii.) It the system is in sofe state? If yes what is safe sequence

Apply the safety algorithm on given system,

M=3, N=5

work = Available > work = 332

For process o

Need= 7,4,3 , work= 332

Cannot allocate rejources as Need > work to po must wait.

for process 1

Need: 1,2,2 work: 3 3 2

=> Need < Work

So Pi is kept in safe sequence.

work = work tallocation

= 33.2 + 2,0.0

for process 2 Need > work Need = 6,0,0 work = 5,32

so Pr will wait,

=) The above procedure is repeated untill all the process are included in safe sequence

Therefore the safe sequence

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-> P1, P3, Pu, Po, P2

(11) What will happen if P. request one additional of resource A and 2 instances of c? Arrivel: If process P, request one additional resource of type A and 2 instances of type c, then request sequence will be P1= 1 02 To decide wheather the request is granded we we resource request algorithm. New request = 1,0,2 Need=1,22 Request, a Need also New request=1,0,2 and available = 3,5,2 Request 1 < available

Available = available - request 1

Allocation, = Allocation 1 + nequest 1

need 2 Need-request,

P. Allocation Need Available 0,20 2,3,0 3,0,2

determining the safe sequence again after new request then we get allocating

Work = 2,3,0

for process of

Need = 7, 4,3

> ned > work. To must wait.

Meed = 0,2,0 work = 2,3,0

Need = work, so place in late requence.

Need = 6,0,0 work = 5,3,2

P2 must wait.

Need 20,1,1 work = 5,3,2

place in ste sequence.

=) for process Py

Need = 4,3.1 work = 7,4,3

place in safe sequence

Again procent P.

Need > 7, 4,3 Work = 7,4,5

Place In safe sequence

Than safe sequence will be

## Answers:

Disk Management is a utility built into different operating systems which can be used to create, delete, format positions assign drive letter and much more

Disk Monogement can also be used for viewing the partitions and there formatted file system on hard drive.

The following are functions of disk management.

- 1. partition a drive
- 2. format a drive
  - 3. change drive letter
  - 4. Shrink postition
  - 5. Extended partition
  - to Delete partition
  - 7. Change Drive file system

To use a disk to hold files, the operating system record with dala structure on the disk. The partition disk into one or more group of cylinders. The os treat each partition as a seperate disk.

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