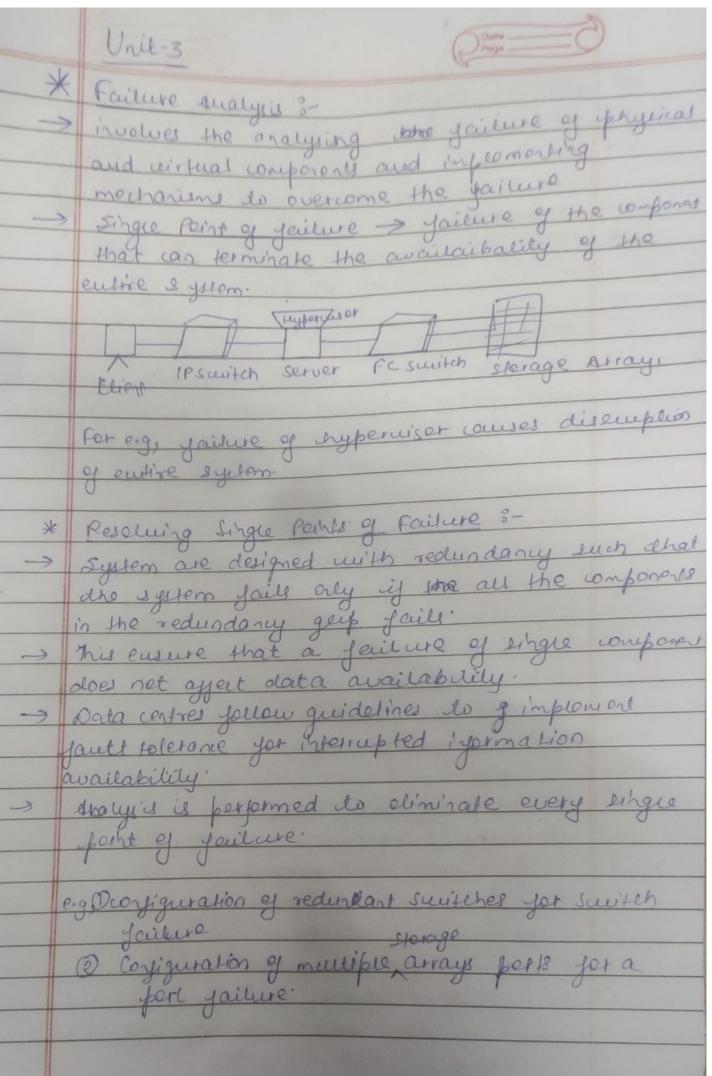
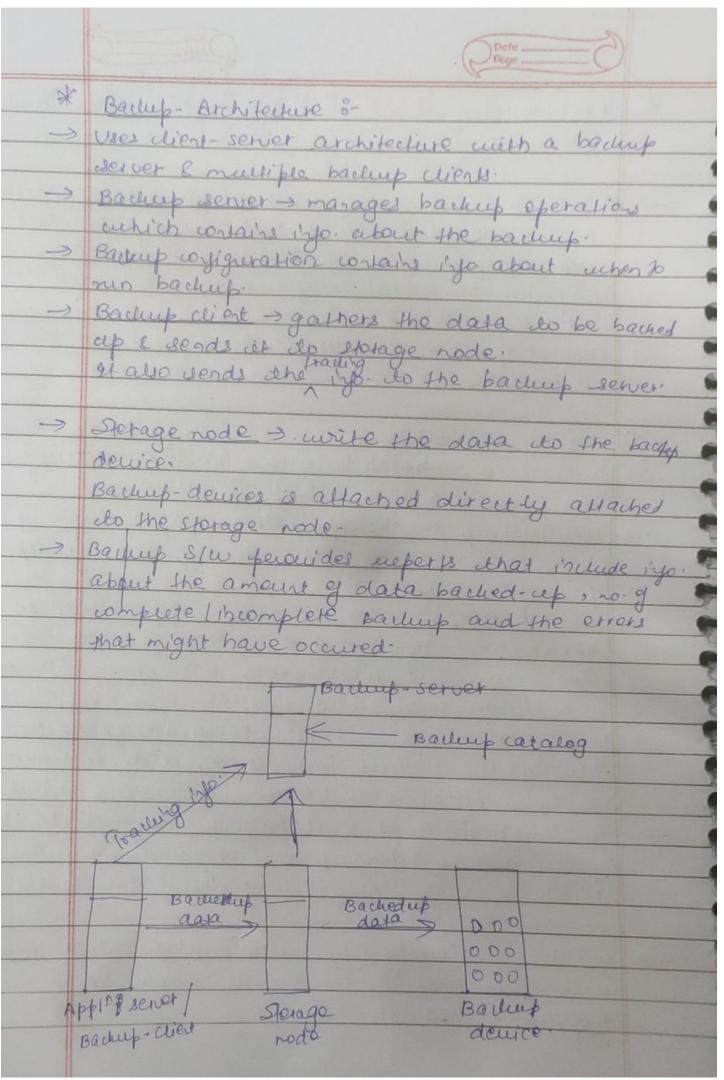


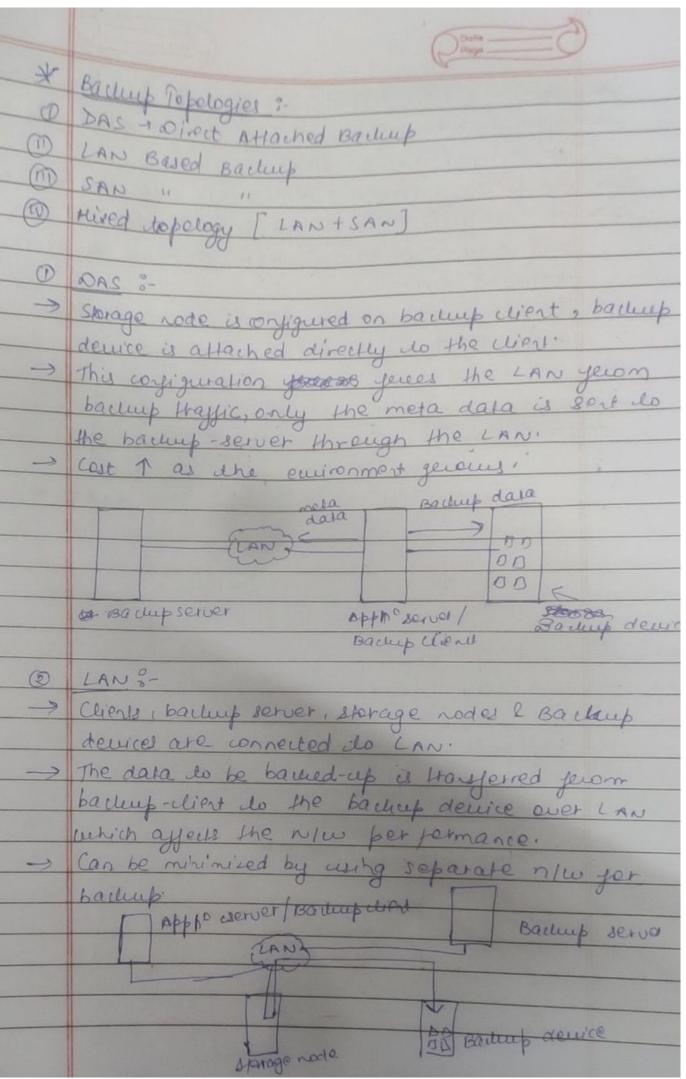
| (Q)- | Implement: @ Implement risk management and mitigation |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | |
| | Despare diaster recovery assure vices |
| | Despose divorter recovery associate is a data configuration of failure. |
| | |
| | Train test, assess and maintain: 1. Train the employees responsible for backup, energency |
| | response procedures, sociously team on recovery procedure |
| | D. Perform damage aussment processes & review seconery pl |
| | h) restorm aurunge |
| | |
| - | D. Acres 4000 the pretormance seports. |
| | Ouplate the BC plans. |
| | |
| * | Backup Purposes: |
| | @ Backup is an additional copy of production data, |
| | reported and adamed for the sole purpose of |
| | accovering lost or 10000 corrupted 1000 data. |
| | Backup Puspose: |
| - | Strautes Recovery |
| 7 | Operational Recovery |
| - | Archival. |
| | Harding and the Control of the Contr |
| | |
| | AL SAN TARING DAY OF THE |
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| | entimetraction and in the sector of the sector of the sector of |
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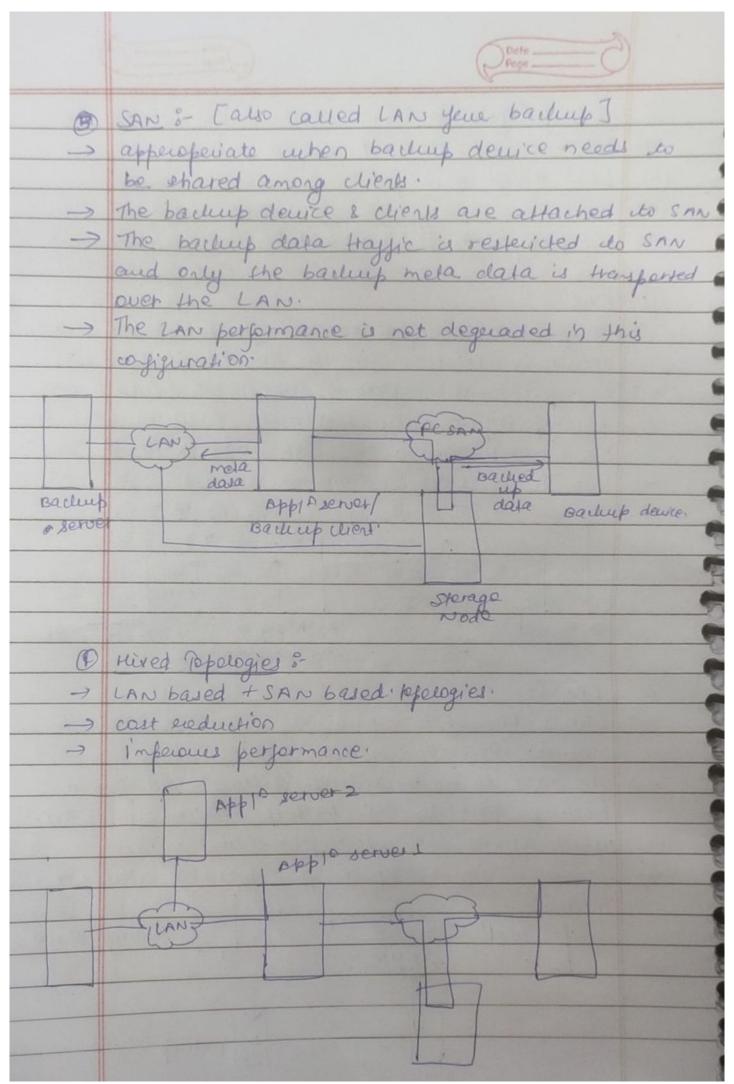


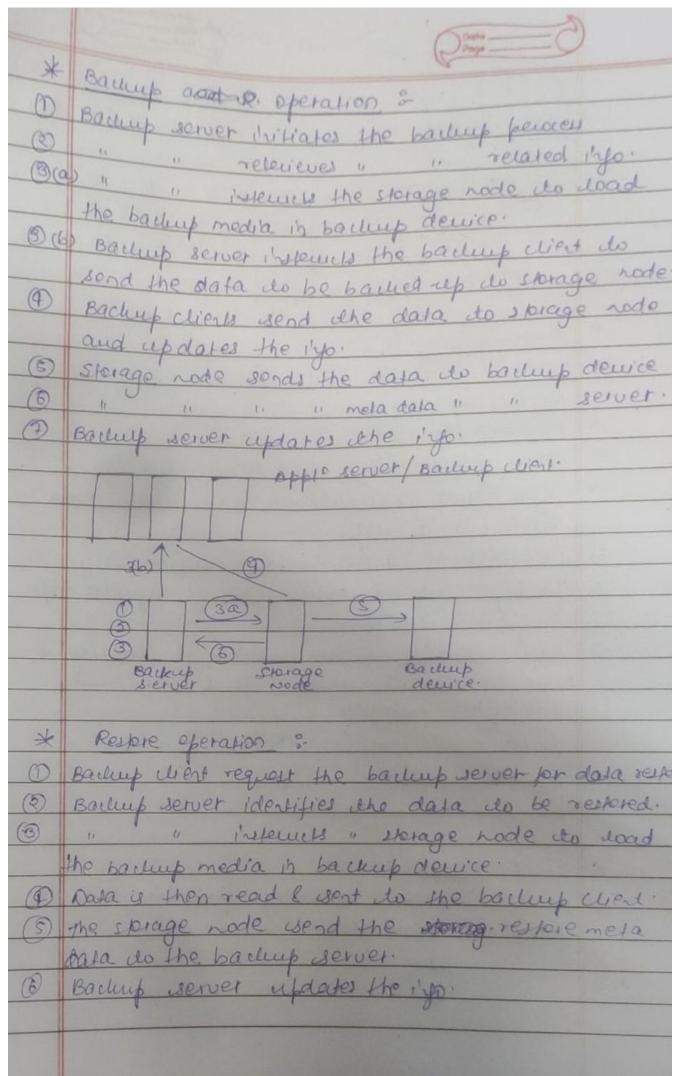
| | Date |
|---------------|-------------------------------------------------|
| * | Back-up Purpose 3- |
| 0 | Disaster Recovery 8- |
| -> | The backup solies are |
| | the backup copies are stored at an alternate |
| | discripted due to a disaster. |
| -> | Cater, the info can be received |
| | at the Disaster Recovery site (DRS). |
| | secondy site (DRS). |
| 0 | Operational Recovery 3- |
| \rightarrow | really in the peroduction envisorment the |
| | travalling of al |
| -> | tised up reported do his |
| | ass of corruption ocurs during |
| | The pero (Esting) |
| | e.g. votas acomonos deletion el email can |
| | be everlored using backup-data |
| (1) | |
| | Coalest address of the |
| | Content addressed sprage ((As) has emerged as |
| | as the perimary self for archieves, Haditional |
| | traditional enterpenses. |
| | |
| * | Backup Consideration :- |
| -> | Perimary vorsiderations -> RPO, RTO |
| -> | PPO :- determines backup jenguenny. |
| | Rugers to the point - in-time at which the date |
| | must be recovered and the point-in-time to |
| | of gerom which to restart business operation |
| | specifies dime interval bet two backups |
| (| Tereig, if RPO = 1 day, the day should be |
| | backuped once every day. |

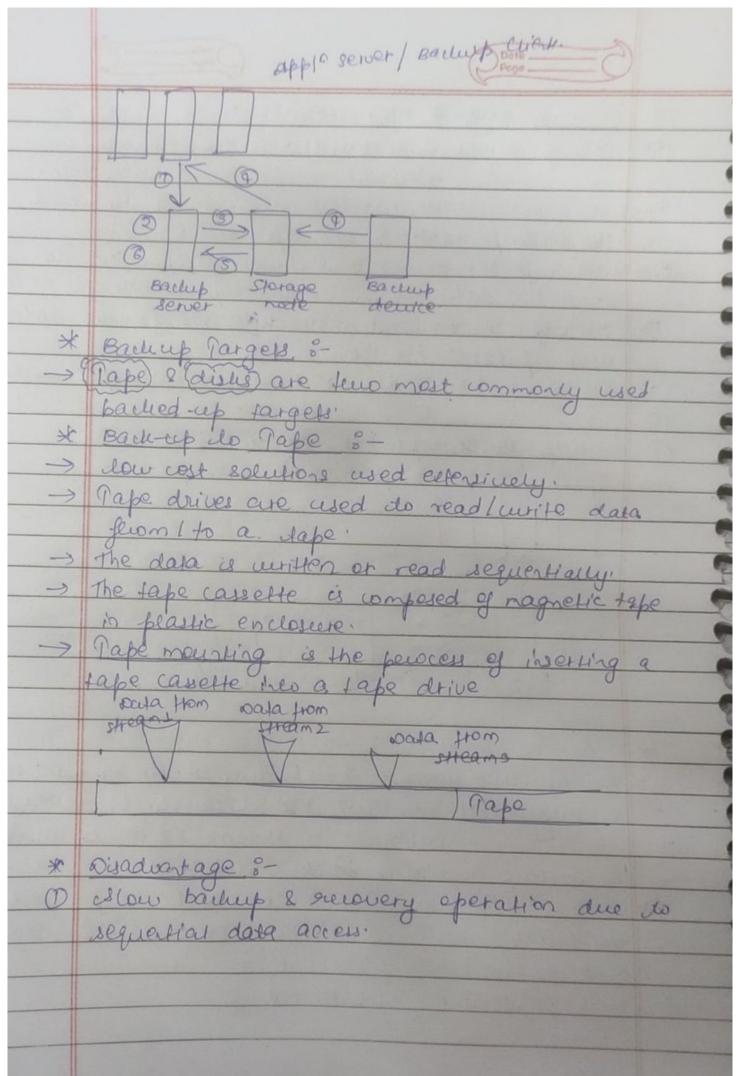
| 13/3/3 | |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Contraction of the contraction o |
| -> | PTO :- determines also "barkup media type" and |
| | determines data recovery time. |
| | |
| 7 | Location, size & no. of files should also be considered |
| -> | Bout to they night affect the wetter dess time as |
| | compared to equal norgamount ej data divided |
| | into small files. |
| -> | Rafa Compression e Data, duplication thomas es |
| | iowidered |
| * | Backup-relhods, 8- |
| -> | Puro methods -> Het backup (online backup) -> Lold backup (offine " |
| | -> lold balling (offline |
| - | Hot bailing of the application is up a mine of |
| | the users can agest data during the backup |
| -) | 'cold backup : it enquires application to be |
| | shout down during the backup perocest |
| -> | flet backup is challenging because the data |
| -> | Is actively used & changed. If a file is open it is not normally backed-up |
| | Eduring the backup perocess. In such situation |
| | an Open file Agent (OPA) do backup the file. |
| -> | Consistent bachups of databases can also be done |
| | by using a cold backup but & disadventage associated with this is that the databases |
| | remains martine. |
| -> | Certain affected & permissions affacts do a lie |
| | such as permission, owner also needs to be |
| | bacterop backed-up. |
| | |

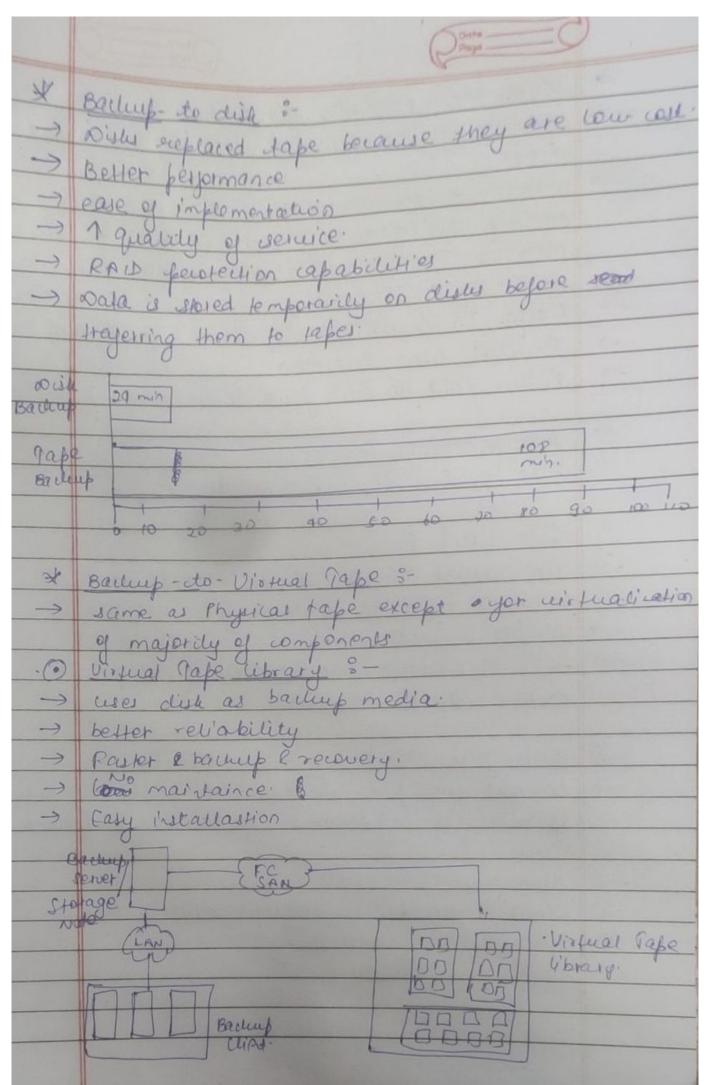




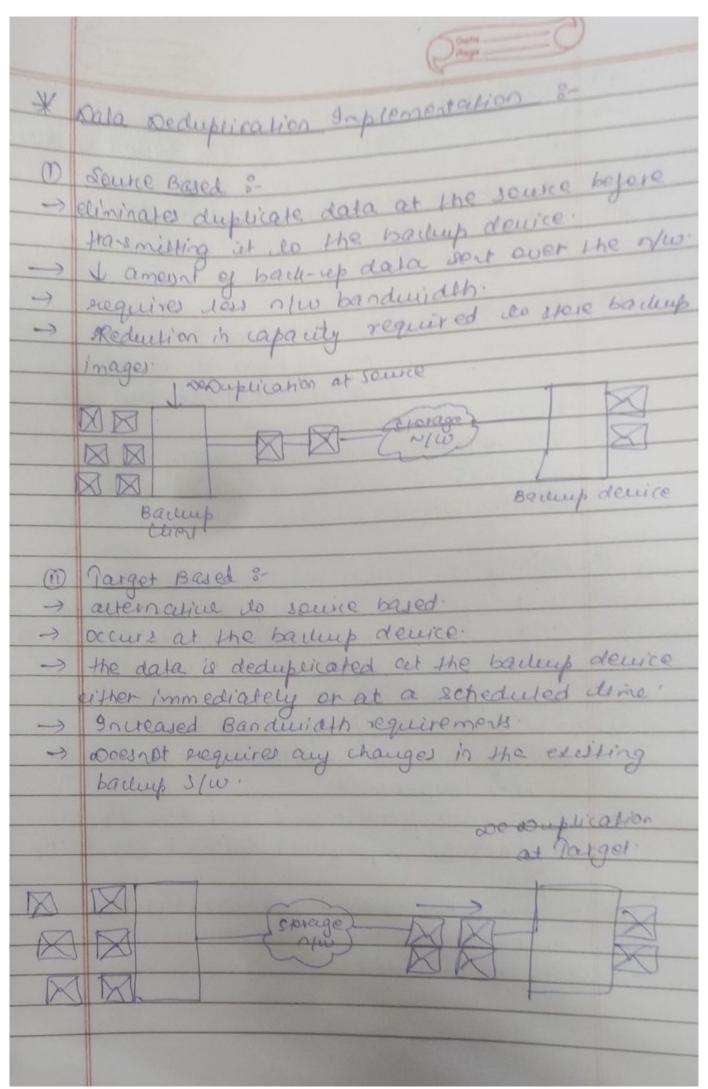








| | Opere |
|-----|-----------------------------------------------------------------------------------------------------------------------------|
| * | Dala Reduplication for Backup :- |
| -> | deta: |
| > | when a duplicate data is deterted during bachup & data is discarded and perher is created do rejet the copy of data that is |
| | already backed-up. |
| -> | Heips do I estorage requirement for bailing |
| -> | Removes n/w burden. |
| 7 | Refair data on dish for a longer time: |
| × | Juo methods &- |
| 0 | |
| | |
| 0 | Pile level 8- |
| -> | also called single instance storage |
| -> | removes copies of identical files. |
| | single & fact |
| - | does not address the pereblem of duplicate content inside the giles. |
| (2) | Sub-file level ? |
| -> | because the file i'do smaller hungs the |
| | specialized algerithms. to detect duplicate |
| | aata. |
| -> | Tuo jorns, 8- |
| 0 | fixed length block deduptication |
| 1 | Variable " " |
| | |
| | |
| | |



| | Opera |
|---------------|----------------------------------------------|
| (19) | Inline deduplication :- |
| -> | performs deduplication on the balled up data |
| | before it is stored on backed up decirce |
| -> | I sprage capacity needed for backup. |
| -> | best suited yet environment with large |
| | backup window! |
| (FU) | Cost Para and Cost to the Cost |
| (10) | Post Peroces Deduplication ? |
| | enables the backed-up data do be stored on |
| | the backed-up device as girst and then |
| -3 | deduplicated (ater |
| -3 | required more average capacity. |
| | bachup window. |
| | |
| * | Backup in Virtualized enironment & |
| \rightarrow | it is imperfant to backup wirtual machine |
| | dora do prevent ils loss due to human er |
| | technical error |
| 7 | Juo appenaches 3- |
| 0 | Traditional Backup appearach :- |
| -> | Backup agent is installed either on VMs or |
| | on the Hyperuiser |
| 7 | If the backing agent on a VM. then the vy |
| | appears as a physical server to the backup |
| | agent. |
| \rightarrow | of it is installed on typeruiser, UM affects |
| - | vign up utilization. |
| -> | High Up utilitation. |
| | |
| | |
| | |

