

Operations

- HCI
 - GUI
 - CLI
 - Icons
 - WIMP
 - Post-WIMP
 - Library Program / Program Libraries / Library routine / Dynamic link library.

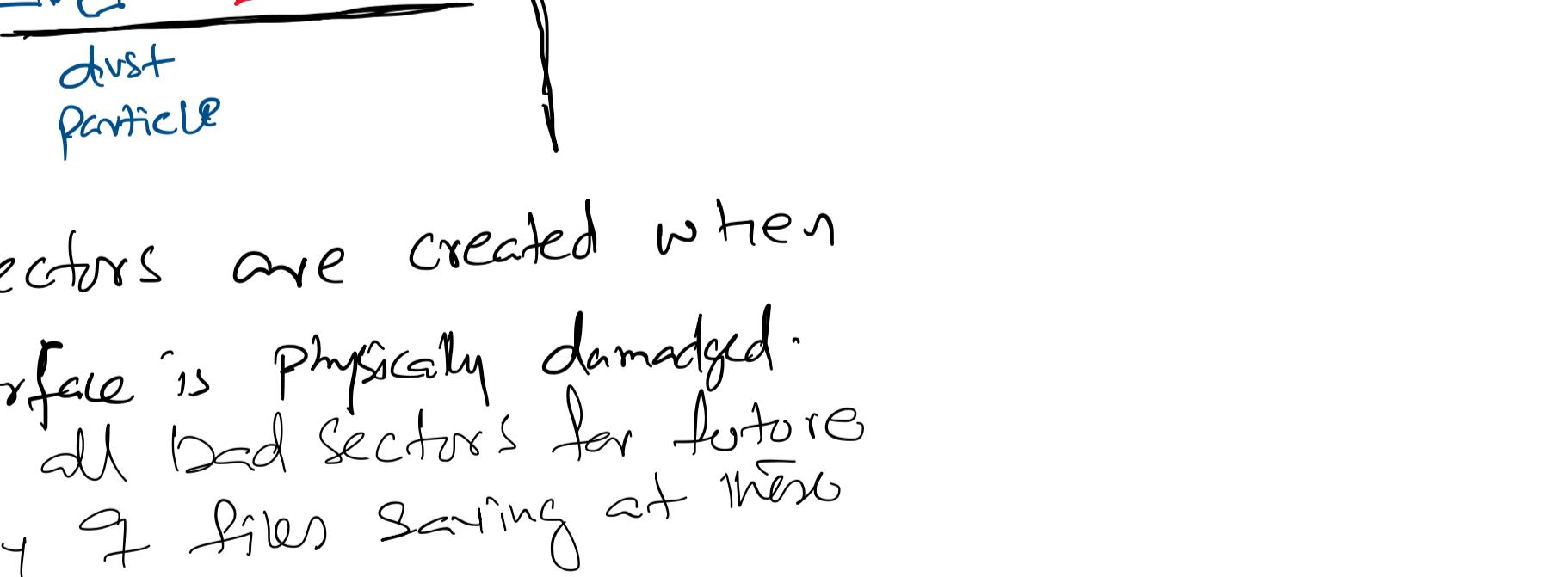
Key Tasks of O/S: Memory management, file management, Security management, Hardware management, Process management.

 - Memory Management:
 - To keep loaded programs in their memory.
 - To exchange information with each other.

- Paging and virtual memory
- Memory optimisation

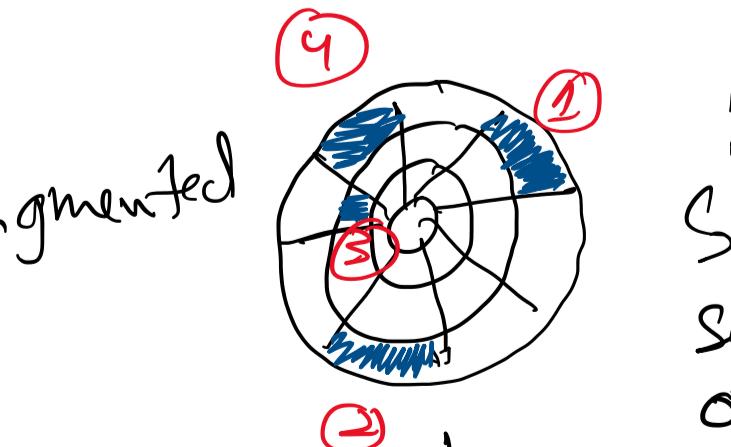
- File Management:
 - Folder and directory structures.
 - Naming file according to rules
 - Access control rights
 - File indexing
 - Security Management:
 - Provision for data recovery when data is lost.
 - Prevention from unauthorised access.
 - Security & Privacy of data.
 - Hardware Management
 - Holding (installation & use) proper device driver for the I/O and peripheral devices.
 - Control every device directly.
 - Enabling applications to use devices efficiently.
 - Process Management:
 - Process is a program which is being executed/run on a computer.
 - Process management involves:
 - allocation of resources to the running processes.
 - permits processes the sharing and exchanging of data.
 - Also called "Scheduling"
 - It makes sure the fair usage of resources, fair allocation of time to make user experience smooth.

Replay soft



Mark all bad sectors for future
security of files saving at these
bad sector areas.
Also recovers files saved in

Defragmentation Software



File is
Scattered over
several sectors
over the surface

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adjacent sectors, so
be accessed fast