## File Management

## File:

A file is named collection or related information. Hhat is recorded on secondary storage such as magnetic disks, magnetic tapes 4 optical disks.

In general, a file is a sequence of bits, bytes, lines or records whose meaning is defined by the files creater and user.

## File Attributes:

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- The symbolic file name 1's the only information teptin human readable form.
- 1 Identifier:

  This unique tag, usually a number, identifies

  the file within the file system,
- Type:
  This information is needed for systems that support that different types of files.
- Decation:

  This information is a pointer to a device and to the location of the file on that device.
- The current size of the file cin bytes, words, brocks)

& possibly the maximum allowed size are included in this attribute.

(6) Protection:

Access-control information determines who can do reading, writing, executing & so-con.

(7) Time, date & user identification

This information may be kept for creation, last modification, & last- use.

## file operations:

O creating a file;

first, apace in the file system must be found for file. second, an entry for new file must be made in the directory.

- To write a file, we make a system call specifying both 1 writing a file: the name of the file and the information to be written to the file.
- To read from a file, we use a system can that (3) Reading a file: specifies the name of the file & where the next block of the file should be put.

- (4) Repositioning within a file: (pile seek)

  The directory is searched for the appropriate entry,

  4 the current-file position pointer repositioned to a

  given value.
- 3 Deleting a rive:

To delete a file, we search the directory for the named file. After finding entry, we release all file space, so that it can be reused by other files of erase the directory entry.

@ Truncating a file:

The user may want to erase the contents of a file but keep its attributes, Rather than deleting file, this function allows all attributes to remain unchanged except for file length.