

## \* File Sharing

Allows the same files to be shared among a number of users.

### 2 Issues

- 1) Access Rights
- 2) Simultaneous Access

### 1) Access Rights

Access Rights can be provided to different classes of users:-  
(specific user, user groups, All users)

Access Rights:- [Restrictions]

- (i) None :- restricted
- (ii) Knowledge :- petition to the owner for additional access rights
- (iii) Execution :- load & execute file but cannot copy it
- (iv) Reading :- read the file

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(v) Appending: - add data but cannot modify or delete.

(vi) updating: - modify, delete & add.

(vii) changing protection: - user can change the access rights granted to other user.

(viii) Deletion: - delete the file from file system.

## 2) Simultaneous Access

When access is granted to append or update a file to more than one user, the OS or file management system must enforce discipline. A brute force approach is used to allow a user to lock entire file when it is to be updated.