File Ownership and Permissions:

- To provide security, all files in a Linux style file system have certain access permissions.
- The files are accessed by:
 - User who owns the file
 - Group(of users) to which the file belongs.
 - Others
- There are three basic actions that are performed on files:
 - Read: Just viewing the file content
 - Write: Changing(add/delete) the file content
 - Execute: Run the file if it is an executable program.
- The access to perform these actions by the user, group and others could be controlled by defining permissions.

Defining Permissions

- The permissions are represented as symbols.
 - Read 'r'
 - Write 'w'
 - Execute 'x'
- The access permissions (r,w,x) are defined for the three categories in the order [user][group][others]
- Example:
 - If the permissions are: rwxrwxrw-
 - This means 'rwx' for user, 'rwx' for group and only 'rw' for others.

```
'r' - read, 'w' - write, 'x' - execute.
```

