Q1)Consider a case,a folder has multiple files and how would copy it to destination machine path(Try using SCP,cp options in Linux)

To transfer a folder containing multiple files to a destination machine, scp is commonly used for remote transfers over SSH, while cp is suitable for local copies. When copying to a remote system, the command scp -r /path/to/local/folder username@remote\_host:/path/to/destination/ ensures that all files and subdirectories are transferred securely. The -r flag enables recursive copying, while SSH authentication ensures data integrity and security during transmission.

For local transfers within the same system or between mounted filesystems, cp provides an efficient solution. Using cp -r /source/folder /destination/path/ replicates the entire folder structure at the target location. This method is effective for quick duplication of directories without network dependency. In cases requiring high-speed transfers between systems within a network, alternatives like rsync can optimize performance while preserving permissions and timestamps.