Client-Server RPC Communication (Multi-clients)

01. Program Details:

(i) Date: 4th October 2022

(ii) Language: Java

02. Problem Statement:

(i) simple service for downloading and uploading files based on

a) message-oriented,

b) client-server communication, and

c) computation service

employing RPC-based (remote procedure call) communication.

(ii) The file server supports multiple clients and multiple operations:

UPLOAD, DOWNLOAD, DELETE, RENAME… etc.

(iii) Operations using synchronous and Asynchronous RPC communications.

03. Pre-requisites:

1. Make sure you are working on Ubuntu if not please install Ubantu using VMWare.
2. As program is written using Java, Install java jdk files.
3. Create two folders (folder\_1 & folder\_2) in directory Home/MyWorks/Ds/SR\_RPC\_Project
4. Add a file to folder\_2 with some content before performing upload function.

04. Code Execution:

1. Copy Client.java, Server.java and ClientHandler.java to local.
2. Compile Server and Client codes using below command in terminal.

Command: javac <file\_name>.java

1. Run codes in following order using below command.

Command: java Server

Command: java Client

1. At client terminal provide the operations to be performed as described. We have code satisfying 12 operations.

For all file operations provide complete file path in Linux.

For example, /Home/rohit/MyWorks/Ds/Folder\_1

1. To exit the connection use ctrl+c and exit.