Language used: Python 2.7

System: Ubuntu 20.04

Folders:

1. Single Server-Client model: Client Code: "{Your-download-folder}/DS Project 1/Single Server/Clients/Client_1.py "
   Server Code: "{Your-download-folder}/DS Project 1/Single Server/Server/Server.py "

2. Multi Server-Client model: Client Code: "{Your-download-folder}/DS Project 1/Multi Server/Clients/Client_1.py and Client_2.py"
   Server Code: "{Your-download-folder}/DS Project 1/Multi Server/Server/Multi_Server.py "

3. Remote Procedure Call model: "{Your-download-folder}/DS Project 1/Remote Procedure Call/Synchronous/ Client.py and Server.py"

4. Asynchronous RPC: : "{Your-download-folder}/DS Project 1/Remote Procedure Call/Asynchronous/ Async_Client.py and Async_Server.py"

5. Deferred Synchronous RPC: : "{Your-download-folder}/DS Project 1/Remote Procedure Call/Deferred/ Deferred_Client.py and Deferred_Server.py"

Instructions to run code :

Single SERVER-CLIENT model and Multi-SERVER-CLIENT model

1. For Single Server-Client model and Multi Server-Client model, please change the Server_Directory and Client_Directory as per their directory in your system and compile them. [better to keep client and server in different folders to see better output]
2. Open 2 terminals one in the server directory and the other in Client directory.
3. Create a sample file to upload and download and run the Server first and then run the Clients.
4. Follow the instructions in client terminal
5. Check output in server and client folders.

RPC model, Asynchronous RPC and Deferred Synchronous RPC

1. Import all the modules such as : math,numpy.
2. Navigate to the appropriate directory mentioned above.
3. Run the server and client in different terminals and observe both the terminals for output.