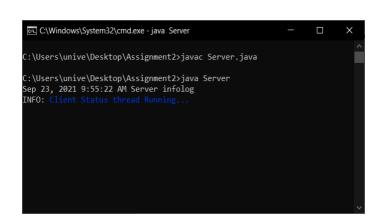
Ex.2 Secure File Transfer Application

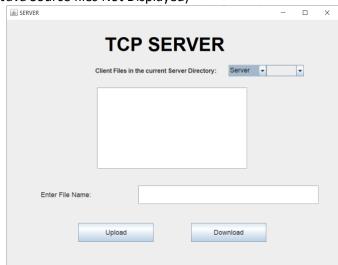
Name :- Vishnu Nandakumar

RegNo :- 123003269

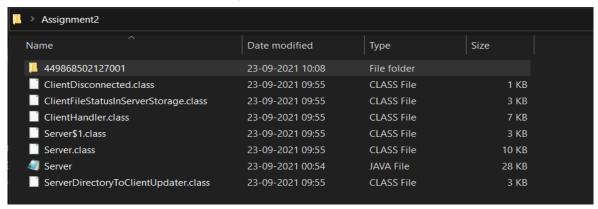
Branch :- CSE

CASE A:- Server Not Connected to Any of the Client. (Server's Java Source files Not Displayed)

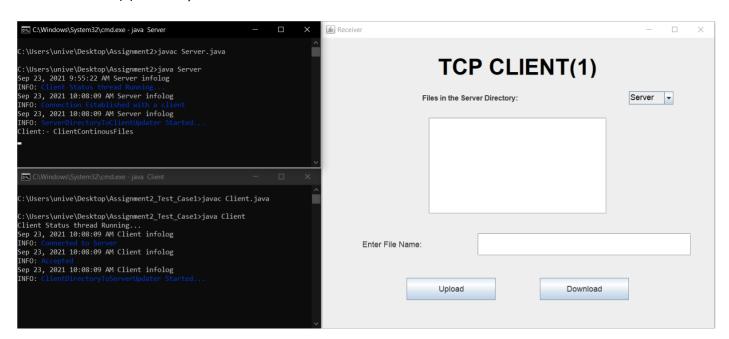




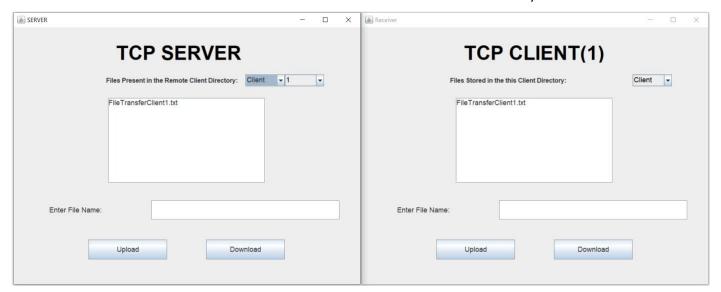
CASE B:- Server Connected to 1st Client(Unique Folder is Connected to That Particular Client)



Here the Client(1) Currently has No Files in Server

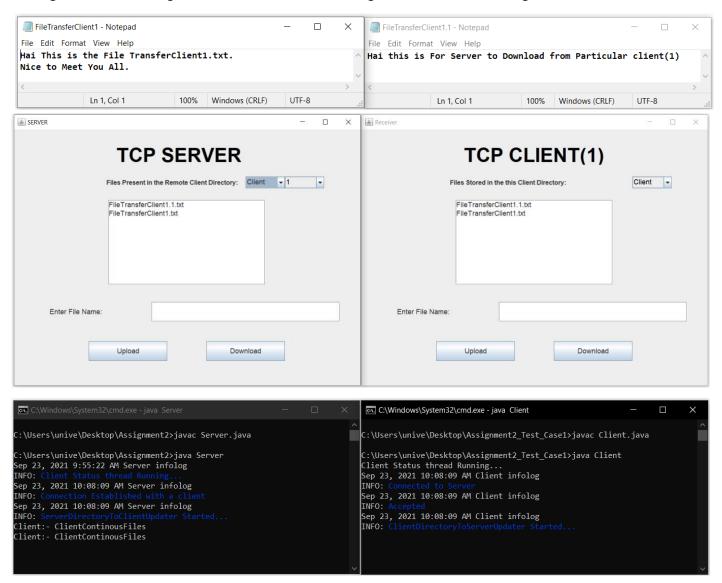


Here Server can see What is Present in Client and Client Can see the Files Stored locally With it.

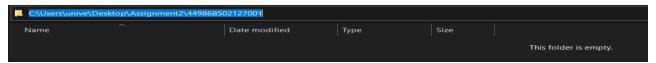


Case C:-

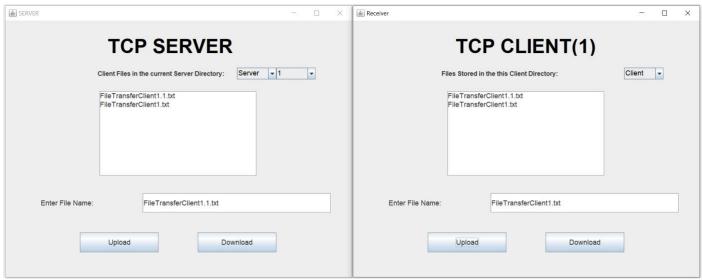
Adding New File in Client gets Reflected in Server Presenting and Client Current Storage



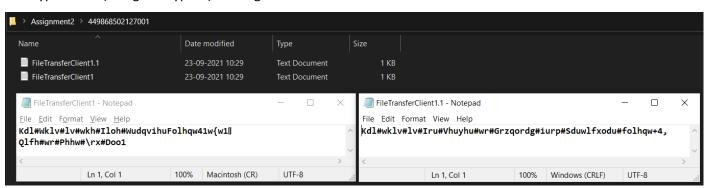
Initially



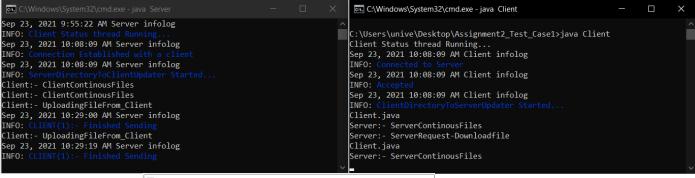
Later on :- Now Client Uploads FileTransferClient1.txt and Server Downloads FileTransferClient1.1.txt



Encrypted Files(Using Hill Cypher) is being sent to Server from Client and Stored There



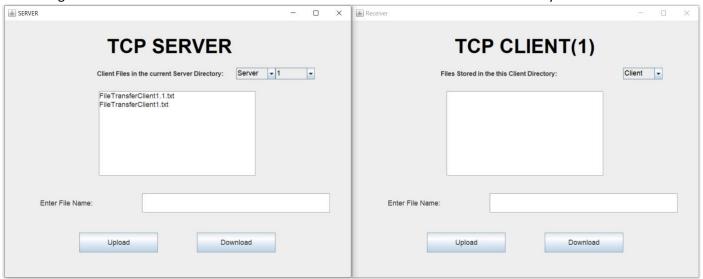
The Changes in Server folder is reflected to Client(1) using "ServerContinuousFiles" and by clicking Server-Option.



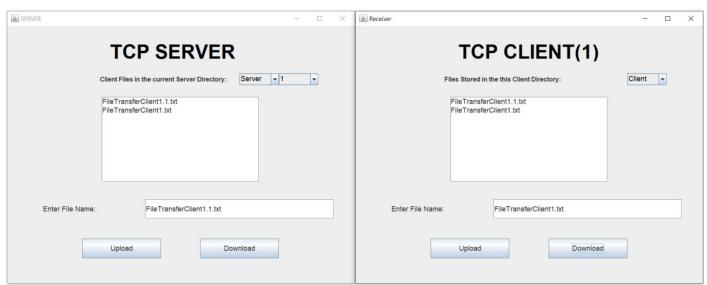


Case D:-

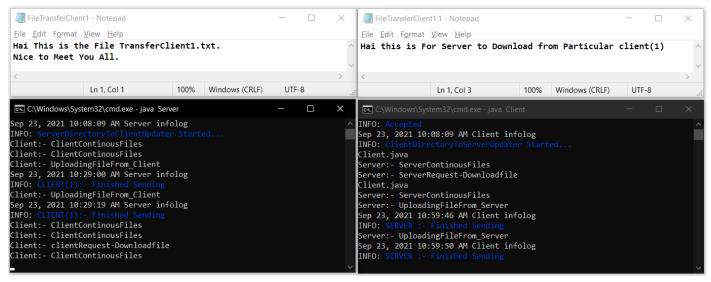
Deleting the Files FileTransferClient1.1.txt and FileTransferClient1.txt from Client Directory

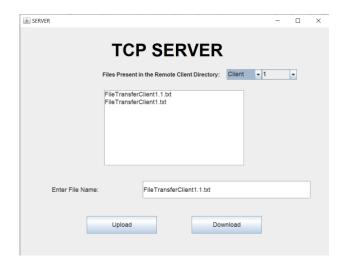


Now Uploading FileTransferClient1.1.txt from TCP SERVER and Downloading FileTransferClient1.txt from TCP CLIENT.



Here the Files are Received to Client and Being Decrypted. (ClientContinousFiles Sent to Server as Client Directory Updated)





CASE E:-

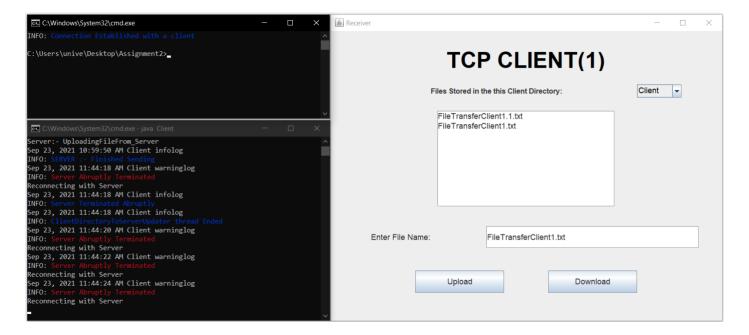
When Trying to connect another client in same folder by same system. (The Client is Terminated)

```
C:\Users\unive\Desktop\Assignment2_Test_Case1>java Client
Client Status thread Running...
Sep 23, 2021 11:23:35 AM Client infolog
INFO: Connected to Server
Sep 23, 2021 11:23:35 AM Client warninglog
INFO: Rejected
Sep 23, 2021 11:23:35 AM Client warninglog
INFO: Client already running on the folder

C:\Users\unive\Desktop\Assignment2_Test_Case1>
```

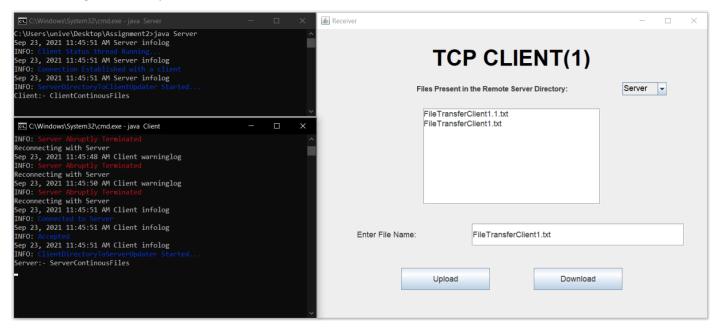
CASE F:-

When Server is Disconnected from Client



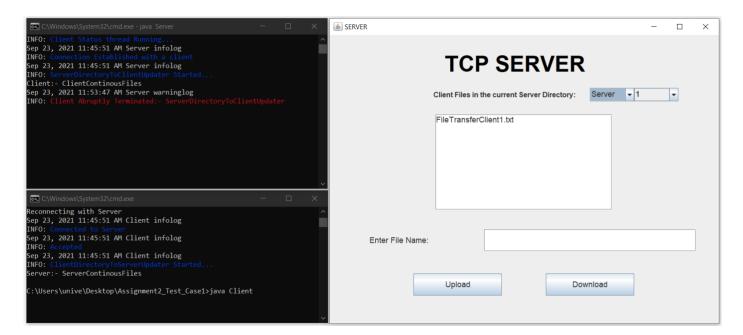
When Reconnecting from Client.

The Server Reconnects Without Changing the Client Number(TCP CLIENT(1)) and Files Saved by Client on Server (Maintaining Consistency with the Client)

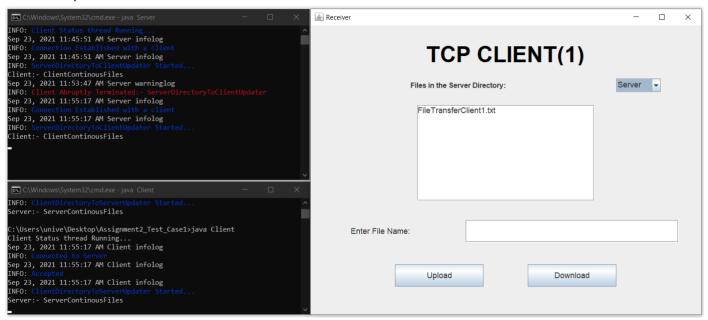


CASE G:-

When Client Gets Disconnected. (and Server deletes FileTransferClient1.1.txt)

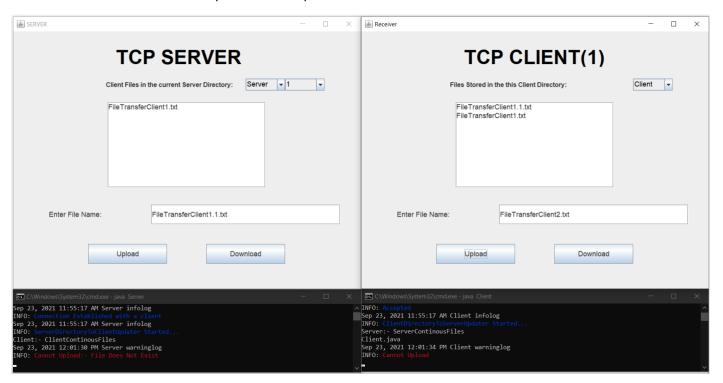


When Client Connects Back(Client Number is not Changed) and Respective Files in Server is shown. Thus maintaining Consistency.

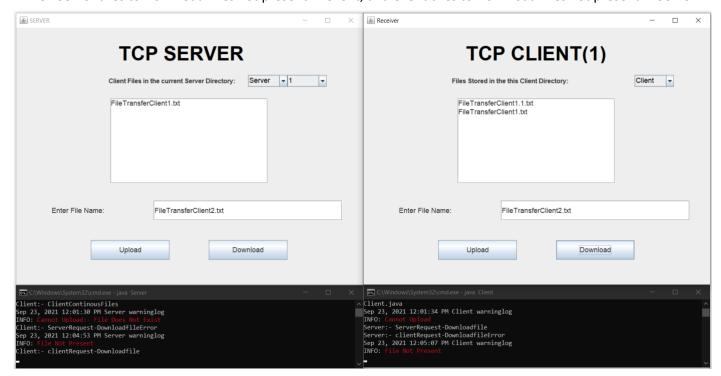


CASE H:-

When Server and Client Tries to Upload files not present with them.



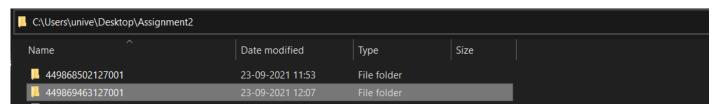
When Server tries to Download Files not present in Client, and Client tries to Download Files not present in Server.



CASE I:-

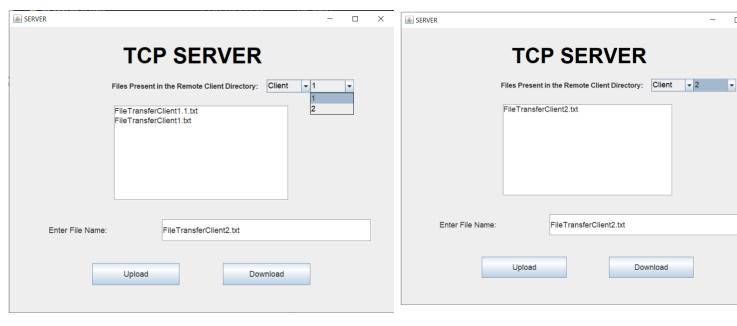
When Another Client Connects

Unique Folder Created For it



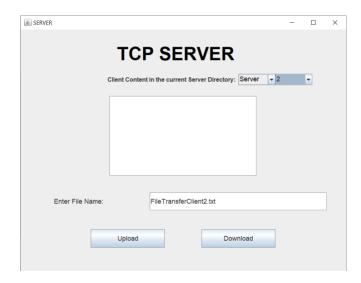
Download

Server Clearly Differentiate the files in 2 Different Remote Client.



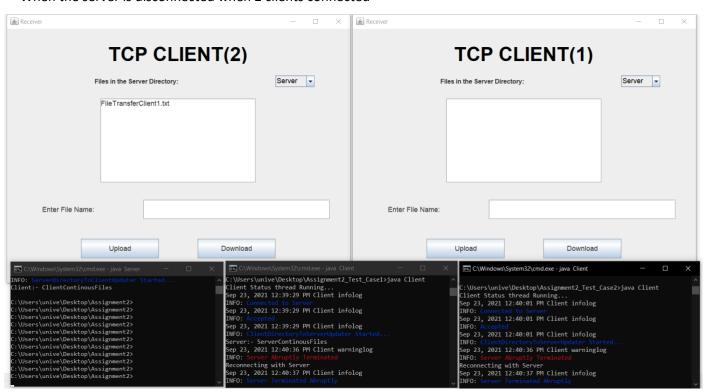
Similarly The Storage of client files is clearly Differentiated.





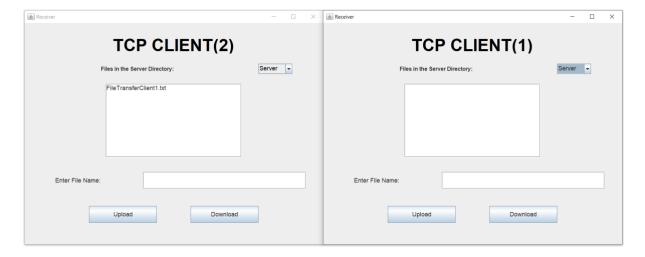
CASE J:-

When the server is disconnected when 2 clients connected



When the Server Reconnects when 2 clients connected

"ClientNumber" And "ServerFiles" are not changed thus maintaining Consistency.



CASE K:- The Client Started Before Server Connection. Recognizes that Server has not yet started for the Client.

