COMPUTER NETWORK LAB - SEM. PRACTICAL

Register Number : 39110373

Name: HARIHARAN BP

Branch: CSE

Sem: 5

Subject Code: SCSA2501

Subject Name: Computer Network Lab

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No. of Pages :- 6

Aim: To implement FTP using TCP

Algorithm

client:

Step1: Create instance for socket class and establish connectivity with the server

Step2: Use the port no. 400

Step3: Receive the file from Server

Step4: Rest the connection with Server

SERVER

Step1: Create instances instances for the serversockets class and accept the serv server port

Step2: Read the filename to be opened

Step3: Send file to the client

Program:

Server:-

```
imports java.i; ~~~~~~~~~~~

import java.io.*;
import java.net.*;

public class FTPServer {
    public static void main (String[] args) throws
                            go Exception {
        ServerSocket ss= new ServerSocket (4000);
        System.out.println (" Server ready for Connection"
                            );
        Socket s= ss.accept ();
        System.out.println (" Connection is successful &
                            waiting for chatting");
```

```
Input Stream istream = s. get Input Stream();

Buffered Reader fileRead = new Buffered Reader
                (new Input Stream Reader
                            (istream));


String frame = fileRead. read line ();

Buffered Reader content Read = new
            Buffered Reader (new FileReader
                                  (frame));


Output Stream ostream = s. get Output Stream ();

Print Writer pwrite = new Print Writer (ostream,
                                          true);

String str;
while (( str = content Read. read line ()) ! null)
{
        pwrite. printth (str);

}
s. close();
ss. close();
pwrite. close();
GG Read. close(); content Read. close(); } }
```

Client :

```
import java.net.*;
imports java.io.*;
public class FTPClient {
    public static void main (String args[]) throws
                                        Exception {

        Socket s = new Socket ( met Address.
                        getLocalHost (), 4000);

        System. out. println ("Enter the file name");

        BufferedReader kyRead = new BufferedReader
                        (new Input Stream Reader
                            (System.in));

        String fname = kyRead. readLine();

        Output Stream ostream = s. get OutputStream
                                                ();

        PrintWriter pwrite = new PrintWriter
                                (ostream, true);

        pwrite. println (fname);
        InputStream istream = s. get InputStream
                                                ();
        BufferedReader socketRead
```

```
Buffered Reader socketRead = new Buffered Reader
                            (new InputStream Reader (istream)).

String str;

while (( str = socketRead. read Line ()) != null)

{
        System.out. println( str);

}
      pwrite. close();
      socketRead. close();
      keyRead. close();

}
)
```

O|P

```
javac FTPServer.java          javac FTPClient.java

java FTPServer                javac FTPClient

                              Enter the file name
server ready for connection
                              FTPFile Text.txt

                              key three FTP program worked

                              successfully !!
```

```
bphar@HBP MINGW64 /d/AAdityAA/SIST/Sem 5/Computer Network Lab (master)
$ javac FTPServer.java

bphar@HBP MINGW64 /d/AAdityAA/SIST/Sem 5/Computer Network Lab (master)
$ java FTPServer
Server ready for connection
Connection is successful and wating for chatting

bphar@HBP MINGW64 /d/AAdityAA/SIST/Sem 5/Computer Network Lab (master)
$
```

```
bphar@HBP MINGW64 /d/AAdityAA/SIST/Sem 5/Computer Network Lab (master)
$ javac FTPClient.java

bphar@HBP MINGW64 /d/AAdityAA/SIST/Sem 5/Computer Network Lab (master)
$ java FTPClient
Enter the file name
FTPFiletest.txt
Hey There FTP program worked successfully!!

bphar@HBP MINGW64 /d/AAdityAA/SIST/Sem 5/Computer Network Lab (master)
$
```

FTPServer.java   FTPFileTest.txt ✕   FTPClient.java

FTPFileTest.txt

```
1   Hey There FTP program worked successfully!!
2   |
```