FileClient.java

```
import java.io.*;
import java.net.Socket;

public class FileClient {
private static DataOutputStream dataOutputStream = null;
private static DataInputStream dataInputStream = null;

public static void main(String[] args)
{
// Create Client Socket connect to port 900
try (Socket socket = new Socket("localhost", 900)) {

dataInputStream = new DataInputStream(socket.getInputStream());
dataOutputStream = new DataOutputStream(socket.getOutputStream());
System.out.println("Sending the File to the Server");
// Call SendFile Method
sendFile("C:/20ce053/filetrans.txt");

dataInputStream.close();
dataInputStream.close();
}
catch (Exception e) {
e.printStackTrace();
}
}

// sendFile function define here
private static void sendFile(String path)
```

```
throws Exception
{
int bytes = 0;
// Open the File where he located in your pc
File file = new File(path);
FileInputStream fileInputStream= new FileInputStream(file);

// Here we send the File to Server
dataOutputStream.writeLong(file.length());
// Here we break file into chunks
byte[] buffer = new byte[4 * 1024];
while ((bytes = fileInputStream.read(buffer))!= -1) {
// Send the file to Server Socket
dataOutputStream.write(buffer, 0, bytes);
dataOutputStream.flush();
}



// close the file here
fileInputStream.close();
}
}
```

FileServer.java

```
import java.io.DataInputStream;
import java.io.DataOutputStream;
```

```
import java.io.FileOutputStream;
import java.net.ServerSocket;
import java.net.Socket;
import java.io.*;

public class FileServer {

private static DataOutputStream dataOutputStream = null;
private static DataInputStream dataInputStream = null;

FileRead frd = new FileRead();

public static void main(String[] args)
{
// Here we define Server Socket running on port 900
try (ServerSocket serverSocket
= new ServerSocket(900)) {
System.out.println("Server is Starting in Port 900");
// Accept the Client request using accept method
Socket clientSocket = serverSocket.accept();
System.out.println("Connected");
dataInputStream = new DataInputStream(clientSocket.getInputStream());
dataOutputStream = new DataOutputStream(clientSocket.getOutputStream());
// Here we call receiveFile define new for that
// file
receiveFile("filetrans.txt");

dataInputStream.close();
dataOutputStream.close();
```

```
clientSocket.close();
}
catch (Exception e) {
e.printStackTrace();
}

}

// receive file function is start here

private static void receiveFile(String fileName)
throws Exception
{
int bytes = 0;
FileOutputStream fileOutputStream= new FileOutputStream(fileName);

long size= dataInputStream.readLong(); // read file size
byte[] buffer = new byte[4 * 1024];
while (size > 0&& (bytes = dataInputStream.read(buffer, 0,(int)Math.min(buffer.length, size)))!= -1) {
// Here we write the file using write method
fileOutputStream.write(buffer, 0, bytes);
size -= bytes; // read upto file size
}
// Here we received file
System.out.println(fileName+" File is Received");

String str = "";
int j;
while ((j = fileName.read()) != -1)
```

```
        // Print all the content of a file
        System.out.print((char)j);



    // Passing the path to the file as a parameter
FileReader fr = new FileReader(
"C:\\20ce053\\filetrans.txt");

// Declaring loop variable
int i;
// Holds true till there is nothing to read
while ((i = fr.read()) != -1)

// Print all the content of a file
System.out.print((char)i);

}
}
```