Exp No: 7	PROGRAM FOR FILE TRANSFER
Date:	
A 184	
AIM	
ALGORITHM	

CODE

Server.java

```
import java.io.*;
import java.net.*;
public class Server {
  private static DataInputStream dataInputStream=null;
  private static DataOutputStream dataOutputStream=null;
  public static void main(String[] args) throws IllegalArgumentException {
     if (args.length != 1) {
                    throw new IllegalArgumentException("One argument is required. Path
to store the recieving file (exclude format).");
     try {
       ServerSocket serverSocket = new ServerSocket(900);
       Socket socket = serverSocket.accept();
       System.out.println("Connection Established");
       dataInputStream= new DataInputStream(socket.getInputStream());
       dataOutputStream = new DataOutputStream(socket.getOutputStream());
       receiveFile(args[0]);
       dataInputStream.close();
       dataOutputStream.close();
       socket.close();
     } catch (Exception e) {
       e.printStackTrace();
  private static void receiveFile(String path) throws Exception {
     int bytesRead;
     String file format = dataInputStream.readUTF();
     FileOutputStream fileOutputStream = new FileOutputStream(path + "." + file_format);
     long sizeLeft = dataInputStream.readLong();
     byte[] buffer = new byte[4 * 1024];
```

```
do {
       bytesRead = dataInputStream.read(buffer, 0, (int) Math.min(buffer.length,
sizeLeft));
       fileOutputStream.write(buffer);
       sizeLeft -= bytesRead; // subtracting bytes read from size
     } while (sizeLeft > 0 && bytesRead != -1);
     System.out.println("File is Received and Stored at " + path + "." + file_format);
     fileOutputStream.close();
}
Client.java
import java.io.*;
import java.net.Socket;
public class Client {
  private static DataOutputStream dataOutputStream = null;
  private static DataInputStream dataInputStream = null;
  public static void main(String[] args) throws IllegalArgumentException {
     if (args.length != 1) {
                    throw new IllegalArgumentException("One argument is required. Path
of the file to be sent.");
     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");
        sendFile(args[0]);
       dataInputStream.close();
       dataInputStream.close();
     } catch (Exception e) {
       e.printStackTrace();
  }
  private static void sendFile(String path) throws Exception {
     int bytesRead:
     File file = new File(path);
```

```
String[] splittedStr = path.split("\\.", 0);
     dataOutputStream.writeUTF(splittedStr[splittedStr.length - 1]);
     FileInputStream fileInputStream = new FileInputStream(file);
     int sizeLeft = (int) file.length();
     dataOutputStream.writeLong(sizeLeft);
     byte[] buffer = new byte[4 * 1024];
     do {
       bytesRead = fileInputStream.read(buffer, 0, (int) Math.min(buffer.length, sizeLeft));
       dataOutputStream.write(buffer, 0, bytesRead);
       dataOutputStream.flush();
       sizeLeft -= bytesRead; // subtracting bytes read from size
     } while (sizeLeft > 0 && bytesRead != -1);
     fileInputStream.close();
     dataOutputStream.close();
  }
}
```

OUTPUT

Client:

```
Computer-Networks\7>java Client ./img.jpeg
Sending the File to the Server
```

Server:

```
Computer-Networks\7>java Server ./img-recieved Connection Established File is Received and Stored at ./img-recieved.jpeg
```

RESULT