

UDPC code

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import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
import java.util.Scanner;
public class UDPCfile {
    public static void main(String[] args)throws Exception {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);
        DatagramSocket s=new DatagramSocket();
        InetAddress ia=InetAddress.getLocalHost();
        File f1=new File("C://Codes//");
        File[] files=f1.listFiles();
        StringBuilder sb=new StringBuilder("\n");
        int x=0;
        for(int i=0;i<files.length;i++)
        {
            if(files[i].canRead())
            {
                sb.append(files[i].getName()+",size"+files[i].length()+"bytes\n");
                x++;
            }
        }
        System.out.println(x+" Files found");
        System.out.println(sb);
        System.out.println(" Enter filename for download ");
        String fname = sc.nextLine();
        System.out.println(fname);
        boolean flag = false;
        int id= 0;
        for(int i=0;i<files.length;i++) {
            if(files[i].getName().toString().equalsIgnoreCase(fname)) {
                flag = true;
                id = i;
                break;
            }
        }
        if(!flag) {
            System.out.println(fname + " does not exist!");
            return;
        }
    }
}
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}
File filetocopy=new File(files[id].getAbsolutePath());
FileReader fileReader=new FileReader(filetocopy);
BufferedReader br=new BufferedReader(fileReader);
StringBuilder sb1=new StringBuilder();
String line;
while((line=br.readLine())!=null)
{
sb1.append(line);
sb1.append("\n");
}
System.out.println(sb1.toString());
byte[] sentname=files[id].getName().getBytes();
DatagramPacket p1=new
DatagramPacket(sentname,sentname.length,ia,65535);
s.send(p1);
byte[] senttoserver=sb1.toString().getBytes();
DatagramPacket p2=new
DatagramPacket(sentoserver,sentoserver.length,ia,65535);
s.send(p2);
s.close();
}
}

```

UDPS Code

```

import java.io.File;
import java.io.PrintWriter;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
import java.io.FileWriter;
public class UDPSfile {
public static void main(String[] args) throws Exception{
System.out.print("hello");
DatagramSocket s=new DatagramSocket(65535);
InetAddress ia=InetAddress.getLocalHost();
byte[]filename=new byte[1000];
byte[]b=new byte[10000000];
//receiving name
DatagramPacket name=new DatagramPacket(filename,filename.length);
s.receive(name);
System.out.print("hello");
System.out.println(new String(name.getData()));
DatagramPacket p=new DatagramPacket(b,b.length);
s.receive(p);

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System.out.print("hello");
System.out.println(new String(p.getData()));
//String rec="Received your packet";
//byte[] b1=rec.getBytes();
//System.out.println(b1);
//DatagramPacket p1=new DatagramPacket(b1,b1.length,ia,p.getPort());
//s.send(p1);
String fname=new String(name.getData()).trim();
fname="C://Codes//cAssignment_no_8//"+fname;
System.out.println(fname);
String filedata=new String(p.getData()).trim();
System.out.println(filedata);
PrintWriter pw = new PrintWriter(fname);
pw.println(filedata);
pw.close();
}
}
```