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2. UDP Client, UDP Server
UDP Client
import java.io.*;
import java.net.*;
class UDPClient
public static void main(String args[]) throws Exception
BufferedReader inFromUser =
new BufferedReader(new InputStreamReader(System.in));
DatagramSocket clientSocket = new DatagramSocket();
//Client Socket is created
InetAddress IPAddress = InetAddress.getByName("localhost");
//Gets the IP Address
byte[] sendData = new byte[1024];
byte[] receiveData = new byte[1024];
System.out.print("Enter Message for server:");
String sentence = inFromUser.readLine();
sendData = sentence.getBytes();
//sends data
DatagramPacket sendPacket = new DatagramPacket(sendData, sendData.length,
IPAddress, 9876);
clientSocket.send(sendPacket);
DatagramPacket receivePacket = new DatagramPacket(receiveData, receiveData.length);
clientSocket.receive(receivePacket);
String modifiedSentence = new String(receivePacket.getData());
System.out.println("FROM SERVER:" + modifiedSentence);
clientSocket.close();
}
UDP Server
import java.io.*;
import java.net.*;
class UDPServer
public static void main(String args[]) throws Exception
DatagramSocket serverSocket = new DatagramSocket(9876):
//Server Socekt Created
byte[] receiveData = new byte[1024];
byte[] sendData = new byte[1024];
while(true)
DatagramPacket receivePacket = new DatagramPacket(receiveData,
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receiveData.length);
serverSocket.receive(receivePacket);
String sentence = new String( receivePacket.getData());
System.out.println("RECEIVED: " + sentence);
InetAddress IPAddress = receivePacket.getAddress();
int port = receivePacket.getPort();
String capitalizedSentence = sentence.toUpperCase();
//Change sentence to Capital letter
sendData = capitalizedSentence.getBytes();
DatagramPacket sendPacket =
new DatagramPacket(sendData, sendData.length, IPAddress, port);
serverSocket.send(sendPacket);
//Send Capitalized data back to client
}
}
}
```