**Project2Task0Client**

import java.net.\*;  
import java.io.\*;  
import java.util.Scanner;  
// Name: Leo Lin  
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public class EchoClientUDP{  
 public static void main(String args[]){  
 // Showing that the client UDP is running  
 System.*out*.println("The client is running.");  
 // args give message contents and server hostname  
 DatagramSocket aSocket = null;  
 try {  
 // collecting IP address  
 InetAddress aHost = InetAddress.*getByName*("localhost");  
 // The client is using 6789 as its port number  
 Scanner readInput = new Scanner(System.*in*);  
 System.*out*.println("Please insert the server side port number");  
 int serverPort = readInput.nextInt();  
 // set up a new socket  
 aSocket = new DatagramSocket();  
 String nextLine;  
 // Initiate a BufferedReader that record the user's input  
 BufferedReader typed = new BufferedReader(new InputStreamReader(System.*in*));  
 // Transfer the user's input to byte form and transfer to the server  
 while ((nextLine = typed.readLine()) != null) {  
 // get byte form and turn into a DatagramPacket file  
 byte [] m = nextLine.getBytes();  
 DatagramPacket request = new DatagramPacket(m, m.length, aHost, serverPort);  
 // send the request  
 aSocket.send(request);  
  
 byte[] buffer = new byte[1000];  
 DatagramPacket reply = new DatagramPacket(buffer, buffer.length);  
 // receive the reply from the server side and print it out.  
 aSocket.receive(reply);  
 String replyString = new String(reply.getData()).substring(0, reply.getLength());  
 // If replyString is "halt!" break the while loop  
 if(replyString.equals("halt!")) {  
 System.*out*.println("Client side quitting");  
 break;  
 }  
 System.*out*.println("Reply: " + replyString);  
 }  
  
 }catch (SocketException e) {System.*out*.println("Socket: " + e.getMessage());  
 }catch (IOException e){System.*out*.println("IO: " + e.getMessage());  
 }finally {  
 if(aSocket != null) aSocket.close();  
 }  
 }  
}