

Lab 2

1. Write the following client-server applications using the classes DatagramPacket and DatagramSocket from Java
 - (a) the server component simulates the echo service of the operating system that reply with the string that the client component sends;
 - (b) the server component simulates the NTP service that reply with the information related to the current time;
2. Write the following application using the classes MulticastSocket from Java
 - (a) a listener component that reads the message another messenger component sends to the group (launch multiple listeners)
 - (b) a chat client component with a graphical interface that uses the group communication and launch multiple clients.
3. Write an application that is using remote method invocation in Java:
 - (a) an interface that is common to the server and the client presenting the method that is remotely invoked by the client and implemented by the server
 - (b) the method returns a string with a greeting message;
 - (c) the server implements the method and is registering its method to the rmiregistry
 - (d) the rmic is used as compiler to generate the stub for transforming the remote method call into a message exchange
 - (e) the client calls the method and print the greeting message.