TCP Server:

1. Create socket

2. Bind to address and port

3. Put in listening mode

4. Accept connections and process there after.

The TCP Server code will start a server on localhost (127.0.0.1) port 8888

Once it receives a connection, it will read some input from the client and reply back with the same message.

It performs two types of operations:

1] List- When this command is send to Server, client is asking to display table containing attributes and values of DVD namely- Item\_no Title Quantity

2] Order- When Client sends this command to server, it means client is ordering n quantities of particular item. This changes can be seen when the client is requesting List command next time.

TCP Client:

1.Create socket

2.Connect to server

The TCP Client code create a client which will connect to the server and receive data requested. It request data using two types of command.

1]List- It is used to list information of DVD's.

2]Order- It is used to order items of given quantity.

Steps to run TCP Server:

./kajalserver

Steps to run TCP Client

1]./kajalclient 127.0.0.1 8888 list

This command is used to request server to list the information of DVD's.

2]./kajalclient 127.0.0.1 8888 order 1 10

This command is used to order dvd's of given item no. and of given quantities.

To test the tcp server and tcp client, run the server and client and then connect from different terminal.

UDP Server:

1.Create using socket()

2.bind()

3.recvfrom()

4.sendto()

Steps to run UDP Server

./udpserver

Steps to run UDP Client

1]./udpclient 127.0.0.1 8888 list

This command is used to request server to list the information of DVD's.

2]./udpclient 127.0.0.1 8888 order 1 10

This command is used to order dvd's of given item no. and of given quantities.

To test the udp server and udp client, run the server and client and then connect from different terminal.

References:

1. <http://www.linuxhowtos.org/C_C++/socket.htm>
2. <http://www.binarytides.com/server-client-example-c-sockets-linux/>
3. <https://www.cs.rutgers.edu/~pxk/417/notes/sockets/udp.html>
4. <http://www.codeproject.com/Articles/11740/A-simple-UDP-time-server-and-client-for-beginners>