Lab Sheet 05 Distributed and Cloud Computing [ICT3253]

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Question 01

01).

Java Socket programming is used for communication between the applications running on different JRE. Java Socket programming can be connection-oriented or connection-less. Socket and Server Socket classes are used for connection-oriented socket programming and Datagram Socket and Datagram Packet classes are used for connection-less socket programming. In socket programming there has two ways, there are client and server programming.

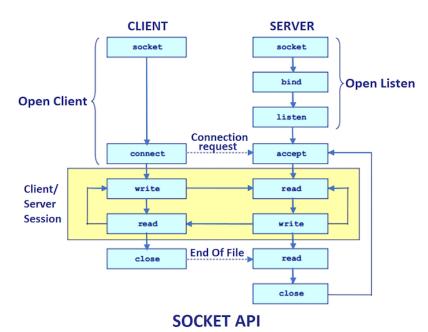
02).

- Stream sockets
- Datagram sockets
- o Raw sockets
- Packet Sequenced sockets
- Hex sockets
- Socket Bit

03)

Server side

- 1. Create server socket on a particular port.
 - 2. Listen to any attempt of connection to that port.
 - 3. If a connection attempt succeeds, get the host of stream objects from the *Socket* and communicate with the client.
 - 4. The communication, however, is established according to the agreed protocol.
 - 5. Close the connection.



Client side

- 1. Connect to remote host.
- 2. Accept remote connections on the bounded port.
- 3. Bind to a port.
- 4. Listen to incoming data.
- 5. Send and receive data.
- 6. Close a connection

Question 02

Part 01

Part 02