Sockets are the endpoints of the communication channel, both clients and servers have to use sockets to communicate.

Once a connection is established you can put data into your socket and it will make its way to the other end, where the receiver will read from the socket to process incoming data.

Using Sockets in Ruby

TCP Server

We need to tell the socket to bind to an interface, then listen on it, and finally to accept incoming connections.

```
TCP Client
require 'socket'
socket = TCPSocket.open("localhost", 3000)
puts "Starting the Client....."
while message = socket.gets # Read lines from the socket
 puts message.chomp
end
puts "Closing the Client...."
socket.close
                            # Close the socket
Accepting Multiple Clients
TCP Server
require 'socket'
puts "Starting the Server...."
server = TCPServer.open(3000) # Server would listen on port 2000
loop{
                           # Servers run forever
 client_connection = server.accept # Establish client connect
connection
  Thread.start(client_connection) do |connection|
    connection.puts(Time.now) # Send the time to the client
```

```
connection.puts("Closing the connection with
#{client_connection}")
    connection.close # Disconnect from the client
 end
}
TCP Client
require 'socket'
socket = TCPSocket.open("localhost", 3000)
puts "Starting the Client....."
while message = socket.gets # Read Lines from the socket
 puts message.chomp
end
puts "Closing the Client....."
socket.close
                           # Close the socket
```