Client-Server communication using Socket Programming and TCP as transport layer protocol

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1 About

A client/server application model typically is viewed as a remotely located, high powered computing device that stores a large quantity of data with business logic to access them in a network. The user interface is handled by the client software on a relatively cheap machine. This idea is not distinct because any machine serving the request can potentially be called a server. Although the server waits for the client to start a conversation, in some cases the same program may act as both client and server. In that sense, a single machine can act as a network providing the communication between the client and the server program that goes through layers of a TCP/IP protocol stack. A socket is an API provided by the OS to realize the connection.

2 Server.py

3 Client.py

```
import socket
import sys
sock = socket.socket.AF_INET,socket.SOCK_STREAM)
sock.connect(('192.168.1.102',3000))
while True:
        try:
                msg = raw_input()
                sock.sendall(msg)
                amount_received = 0
                amount_expected = len(msg)
                while amount_received < amount_expected:</pre>
                        buff = sock.recv(16)
                        amount_received += len(buff)
                        print("Packet Sent")
        finally:
                pass
```