

Government Engineering College, Thrissur

CS334 – Network Programming Lab

Documentation -

Exp1 – Socket Programming - TCP

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Submitted By

Kowsik Nandagopan D

Roll No 31

TCR18CS031

GECT CSE S6

Experiment 1

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

Executing program

- Code is provided in **Client.java** and **Server.java** along with this documentation. You can open the terminal in Linux (Ubuntu 20.04 tested). Then run the command

```
javac Server.java
java Server
```

- Open a **new terminal** and then run

```
javac Client.java
java Client
```

- Server and Client will start their respective sockets and work on the same machine (IP 127.0.0.1, Port 5000).
- This is a dis-continuous message sending system. So we can send data as the console prompts us to do so.
- We can see output side-by-side in the console
- To terminate program type “**Exit**” in both program

Output / Screenshots

Server

Client

```
hp@hp ~/Documents/S6/Network Lab/Exp1
$ javac Server.java
hp@hp ~/Documents/S6/Network Lab/Exp1
$ java Server
Server socket created
From Client: Hi
To Client: Hello
From Client: Exit
To Client: Exit
Server Exit ...
hp@hp ~/Documents/S6/Network Lab/Exp1
$
```

```
hp@hp ~/Documents/S6/Network Lab/Exp1
$ javac Client.java
hp@hp ~/Documents/S6/Network Lab/Exp1
$ java Client
Client socket created
To Server: Hi
From Server: Hello
To Server: Exit
From Server: Exit
Client Exit ...
hp@hp ~/Documents/S6/Network Lab/Exp1
$
```