# CS334 Network Programming Lab Government Engineering College Thrissur Experiment 1

AMARNATH C N S6 CSE Roll no: 10 TCR18CS010

### **AIM**

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

### **THEORY**

The Transmission Control Protocol (TCP) is one of the main protocols of the Internet Protocol Suite. It originated in the initial network implementation in which it complemented the Internet Protocol(IP). Therefore, the entire suite is commonly referred to as TCP/IP. TCP provides reliable, ordered, and error checked delivery of a stream of bytes between applications running on hosts communicating via an IP network. TCP is connection-oriented and a connection between client and server is established before data can be sent.

The server must be listening (passive open) for connection requests from clients before a connection is established.

## **HOW TO RUN**

- Open 2 terminal one for Client and other for Server.
- Server should be setup first and after that Client.
- Run Server application

\$javac Server.java

\$java Server

Server is now started and is waiting for Client

Run Client application

\$javac Client.java

\$java Client

now connection is established

Client can give requests to server and Server can reply to it.

Enter Over in Client to finish communication.

# **Screenshots**

















