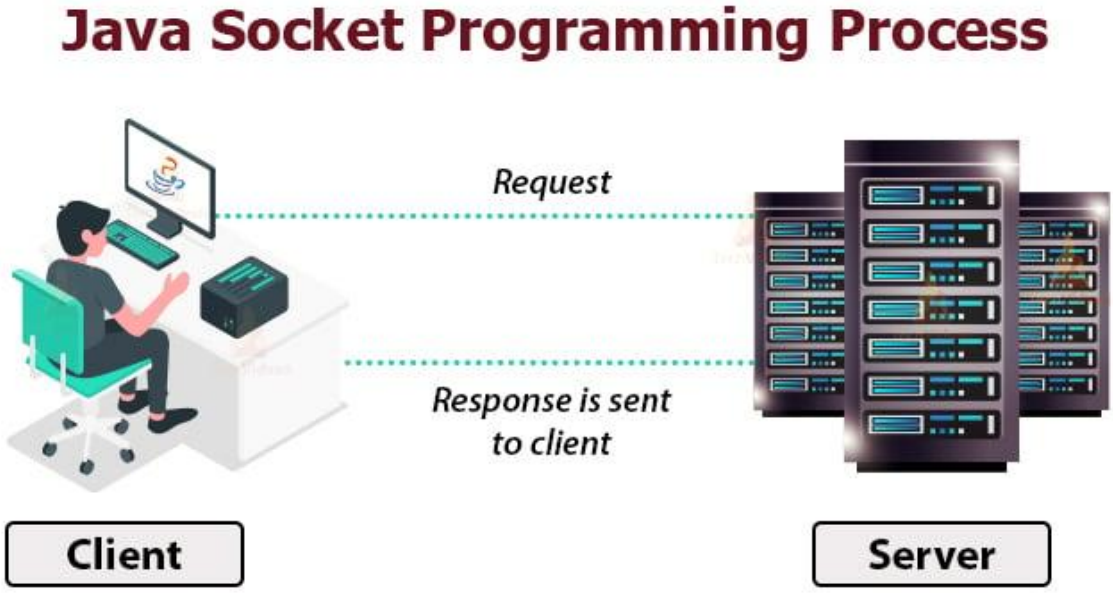
Socket Programming Assignment Report



Supervisor: Mr.Akash Tharuka

Chatting system using TCP/UDP Sockets
Course: CSCI 21023 - Data Communication and Networks (2023/2024)
Date: 19/11/2025

B.Sc. (Honours) in Computer Science

Programming Language: Python

GitHub repository URL : https://github.com/Harshani0117/socket-programming.git

1. Group Members and Roles

Members	What They Did
CS/2022/005	❖ Set up Azure VM
CS/2022/031	❖ Test everything works
CS/2022/034	❖ Write client.py
CS/2022/054	❖ Write server.py

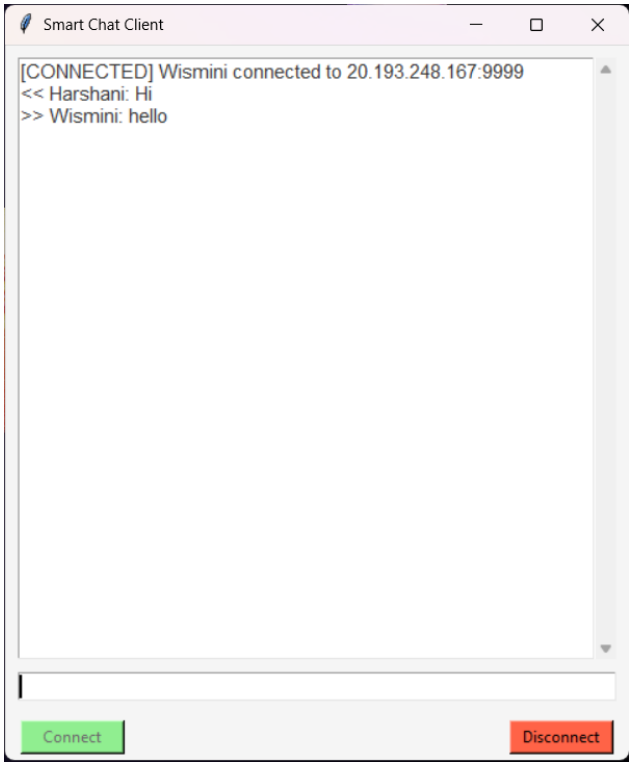
2. System Setup and Configuration

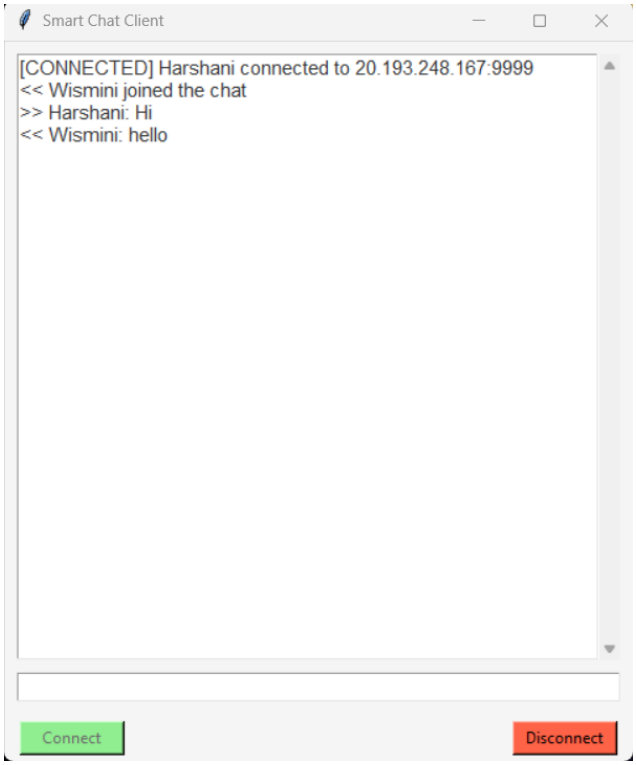
Client 1 ←→ Azure Server ←→ Client 2

(20.193.248.167 port :9999)

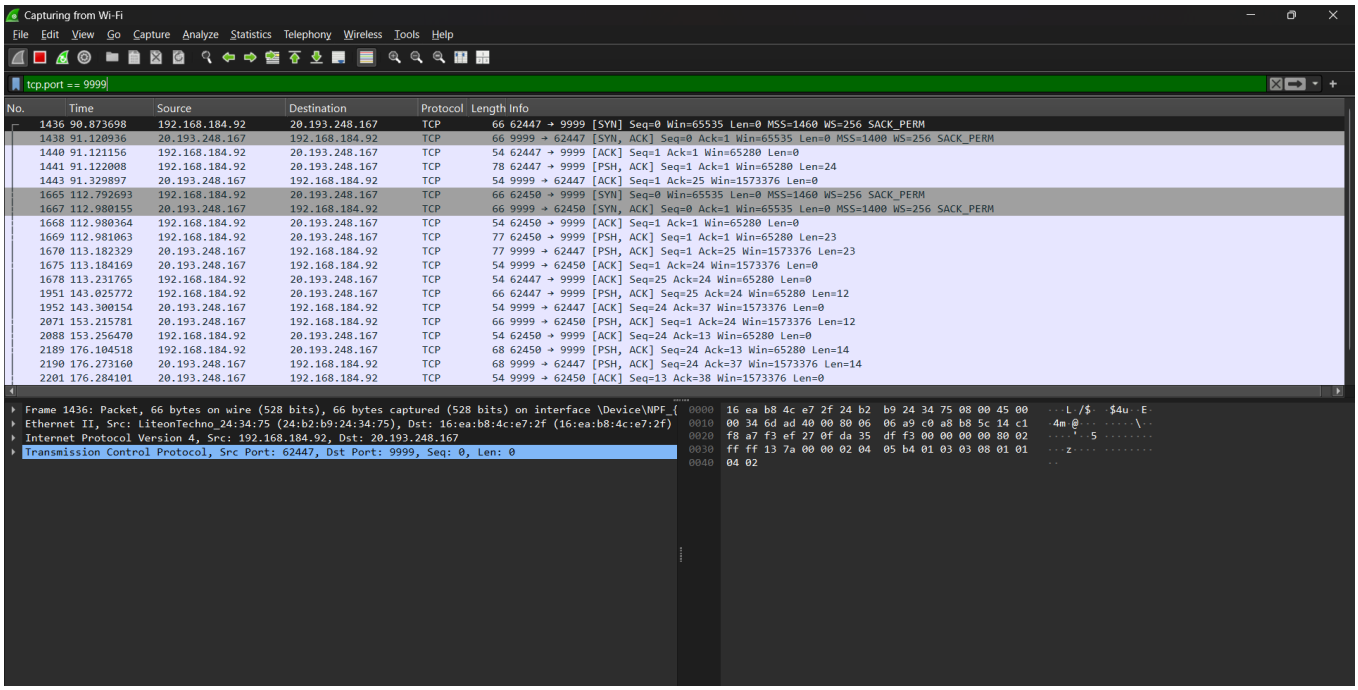
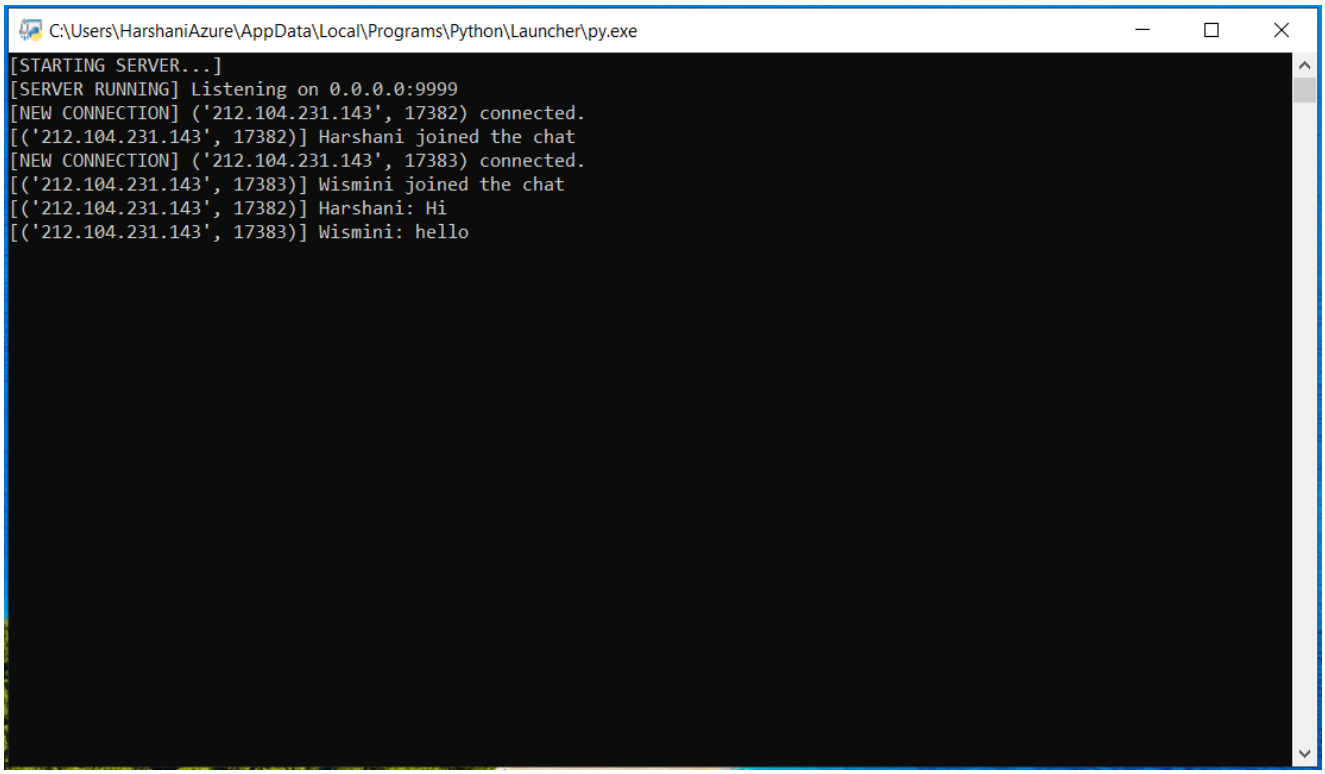
Component	Specification
Cloud Server	Azure VM, Windows, Standard D2ls v5 (2 vcpus, 4 GiB memory)
Public IP	20.193.248.167 (Static), Port: 9999 (TCP)
Host 1	Windows 11, Role: Client 1
Host 2	Windows 11, Role: Client 2
Network Security	Azure NSG: Allow TCP 9999 inbound from Any
Protocol	TCP ,Header: 64 bytes, UTF-8 encoding

Client to client pass message





Passing message



Server Interface