DC Exp 3

**Server.py:**

import socket

def start\_server(port):

    server\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

    server\_socket.bind(('0.0.0.0', port))

    server\_socket.listen(1)

    print(f"Server running on port {port}...")

    while True:

        conn, addr = server\_socket.accept()

        print(f"Connection established with {addr}")

        handle\_client(conn, addr)

def handle\_client(conn, addr):

    with conn:

        while True:

            data = conn.recv(1024)

            if not data:

                break

            print(f"Received message from {addr}: {data.decode()}")

            conn.sendall(b"Message received")

if \_\_name\_\_ == "\_\_main\_\_":

    start\_server(8004)  # Change port number if needed

**Client.py:**

import socket

import sys

def send\_message(ip, port, message):

    with socket.socket(socket.AF\_INET, socket.SOCK\_STREAM) as s:

        s.connect((ip, port))

        s.sendall(message.encode())

        data = s.recv(1024)

    print(f"Received from server: {data.decode()}")

if \_\_name\_\_ == "\_\_main\_\_":

    if len(sys.argv) != 4:

        print("Usage: python client.py server\_ip port message")

        sys.exit(1)

    server\_ip = sys.argv[1]

    port = int(sys.argv[2])

    message = sys.argv[3]

    send\_message(server\_ip, port, message)

**Output:**

