**Name – Tanishq Thuse**

**Branch – CSAI**

**Div – B**

**Roll no. – 52**

**Subject – Computer Network**

Assignment - 5 : Write the client server programs using UDP Berkeley socket primitives for wired /wireless network for following a. to say Hello to Each other b. Calculator (Trigonometry)

a) say Hello

**Client**

import *java.net.DatagramPacket*;

import *java.net.DatagramSocket*;

import *java.net.InetAddress*;

import *java.util.Scanner*;

*public* *class* HelloUDPClient {

*public* *static* void main(String[] args) *throws* Exception {

        DatagramSocket dataSocket = new DatagramSocket();

        InetAddress serverIP = InetAddress.getByName("localhost");

        Scanner userScanner = new Scanner(System.in);

        System.out.println("Hello Client Started. Type messages (bye to exit):");

        while (true) {

            System.out.print("You: ");

            String msgText = userScanner.nextLine();

            byte[] sendBytes = msgText.getBytes();

            DatagramPacket sendPacket = new DatagramPacket(sendBytes, sendBytes.length, serverIP, 5001);

            dataSocket.send(sendPacket);

            if (msgText.trim().equalsIgnoreCase("bye")) {

                break;

            }

            byte[] recvBytes = new byte[1024];

            DatagramPacket recvPacket = new DatagramPacket(recvBytes, recvBytes.length);

            dataSocket.receive(recvPacket);

            String reply = new String(recvPacket.getData(), 0, recvPacket.getLength());

            System.out.println("Server says: " + reply);

        }

        dataSocket.close();

        userScanner.close();

    }

}

**Server**

**Output :**

