**PROGRAM 10 (Client)**

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.net.DatagramPacket;

import java.net.DatagramSocket;

import java.net.InetAddress;

import java.net.SocketException;

public class P10b\_DatagramCLIENT {

public static void main(String[] args) throws SocketException, IOException

{

InetAddress IP = InetAddress.getByName("127.0.0.1");

DatagramSocket clientSocket = new DatagramSocket();

while(true) //true

{

byte[] sendbuffer = new byte[1024];

byte[] receivebuffer = new byte[1024];

System.out.println("Enter the message to be sent to the server");

BufferedReader clientRead =new BufferedReader(new InputStreamReader(System.in));

String clientData = clientRead.readLine();

sendbuffer = clientData.getBytes();

DatagramPacket sendPacket =new DatagramPacket(sendbuffer, sendbuffer.length, IP, 9876);

clientSocket.send(sendPacket);

if(clientData.equalsIgnoreCase("bye"))

{

System.out.println("Connection ended by client");

break;

}

DatagramPacket receivePacket =new DatagramPacket(receivebuffer, receivebuffer.length);

clientSocket.receive(receivePacket);

String serverData = new String(receivePacket.getData());

System.out.println("\nMessage received from the server: " + serverData);

}

clientSocket.close();

}

}