**STOP AND WAIT**

**CLIENT PROGRAM**

import java.net.\*;

import java.util.\*;

import java.io.\*;

class swclient

{

public static void main(String a[]) throws IOException

{

DatagramSocket ds=new DatagramSocket(5000);

byte buf[]=new byte[1024];

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

String str="";

String host="localhost";

String str1="";

InetAddress ia=InetAddress.getByName(host);

while(!(str.equals("bye")))

{

System.out.println("enter msg to server ");

str=br.readLine();

buf=str.getBytes();

DatagramPacket dp=new DatagramPacket(buf,buf.length,ia,4000);

ds.send(dp);CS18412 - COMPUTER NETWORKS LABORATORY

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DatagramPacket dp1=new DatagramPacket(buf,buf.length);

ds.receive(dp1);

str1=new String(dp1.getData(),0,dp1.getLength());

System.out.println(str1);

}

System.out.println("terminated");

}

}

**OUTPUT:**

enter msg to server hi

ack received

bye

terminated

**SERVER PROGRAM**

import java.net.\*;

import java.util.\*;

import java.io.\*;

class swserver

{

public static void main(String a[])throws IOException

{

DatagramSocket ds=new DatagramSocket(4000);

byte buf[]=new byte[1024];

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

String host="localhost";

String str="";

String str1="";

InetAddress is=InetAddress.getByName(host);CS18412 - COMPUTER NETWORKS LABORATORY

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DatagramPacket dp=new DatagramPacket(buf,buf.length);

while(!(str1.equals("bye")))

{

ds.receive(dp);

str1=new String(dp.getData(),0,dp.getLength());

System.out.println("msg from client is.. "+str1);

str="ack received";

buf=str.getBytes();

DatagramPacket dp1=new DatagramPacket(buf,buf.length,is,5000);

ds.send(dp1);

}

System.out.println("terminated");

}

}

**OUTPUT:**

msg from client is hi

terminated