SENDER

import java.io.\*;

import java.net.\*;

import java.util.Scanner;

public class stopwaitsender {

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

 {

 stopwaitsender sws=new stopwaitsender();

 sws.run();

 }

 public void run()throws Exception{

 Scanner sc=new Scanner(System.in);

 System.out.println("enter no of frames to be sent:");

 int n=sc.nextInt();

 Socket myskt=new Socket("localhost",9999);

 PrintStream myps=new PrintStream(myskt.getOutputStream());

 for(int i=0;i<=n;)

 {

 if(i==n)

 {

 myps.println("exit");

 break;

 }

 System.out.println("frame no"+i+"is sent");

 myps.println(i);

 BufferedReader bf=new BufferedReader(new InputStreamReader(myskt.getInputStream()));

 String ack=bf.readLine();

 if(ack!=null)

 {

 System.out.println("acknowledgement was received from receiver");

 i++;

 Thread.sleep(4000);

 }

 else

 {

 myps.println(i);

 }

 }

 }

}

RECEIVER

import java.io.\*;

import java.net.\*;

public class stopwaitreceiver {

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

 {

 stopwaitreceiver swr=new stopwaitreceiver();

 swr.run();

 }

 public void run()throws Exception

 {

 String temp="any message",str="exit";

 ServerSocket myss=new ServerSocket(9999);

 Socket ss\_accept=myss.accept();

 BufferedReader ss\_bf=new BufferedReader(new InputStreamReader(ss\_accept.getInputStream()));

 PrintStream myps=new PrintStream(ss\_accept.getOutputStream());

 while(temp.compareTo(str)!=0)

 {

 Thread.sleep(1000);

 temp=ss\_bf.readLine();

 if(temp.compareTo(str)==0)

 break;

 {

 System.out.println("frame"+temp+"was received");

 Thread.sleep(500);

 myps.println("received");

 }

 System.out.println("all the frames are received successfully");

 }

 }

}

OUTPUT:

enter no of frames to be sent:

3

frame no0is sent

acknowledgement was received from receiver

frame no1is sent

acknowledgement was received from receiver

frame no2is sent

acknowledgement was received from receiver