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