

7.)Write a program to implement Chat Server

//Server

```
import java.net.*;
import java.io.*;
public class servertcp
{
    public static void main(String args[]) throws IOException
    {
        ServerSocket ss=new ServerSocket(12);
        Socket s=ss.accept();
        System.out.println("Connection from "+s);

        PrintWriter pw1=new PrintWriter(s.getOutputStream(),true);
        BufferedReader br3=new BufferedReader(new InputStreamReader(s.getInputStream()));
        BufferedReader br4=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("i m ready");
        String s1, s2;
        /*while((s1=br4.readLine())!=null)
        {
            pw1.println(s1);
            System.out.println(s2);
        }
        */
        while(true)
        {
            do
            {
                s1=br4.readLine();
                pw1.println(s1);
            }
            while(!s1.equals("over"));
            do
            {
                s2=br3.readLine();
                System.out.println(s2);
            }
            while(!s2.equals("over"));
        }
    }
}
```

// Client

```
import java.net.*;
import java.io.*;
public class clienttcp
{

```

```
public static void main(String args[]) throws IOException
{
    Socket cc=new Socket(InetAddress.getLocalHost(),12);
    PrintWriter pw=new PrintWriter(cc.getOutputStream(),true);
    BufferedReader br1=new BufferedReader(new InputStreamReader(cc.getInputStream()));
    BufferedReader br2=new BufferedReader(new InputStreamReader(System.in));
    String str1, str2;
    /*while((str1=br2.readLine())!=null)
    {
        System.out.println(str1);
        //pw.println(str2);
    }
    */
    while(true)
    {
        do
        {
            str1=br1.readLine();
            System.out.println(str1);
        }
        while(!str1.equals("over"));
        do
        {
            str2=br2.readLine();
            pw.println(str2);
        }
        while(!str2.equals("over"));
    }
}
}
```

8.) Write a Program to implement termination detection

```
#include<stdio.h>

#include<conio.h>

#include<dos.h>

#include<stdlib.h>

#include<math.h>

void main()

{

int i,j,k=0,n,tw,total=0,we,ca,w[20];

clrscr();

printf("enter the no of process=");

scanf("%d",&n);

printf("\n\nassign a controlling agent=");

scanf("%d",&ca);

printf("\n\nenter the total weight=");

scanf("%d",&tw);

while((k<n))

{

randomize();

w[k]=random(tw);

tw=tw-w[k];

k++;

}

for(k=0;k<n;k++)

{total=total+w[k];
```