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CODE: CSA0734

EXPERIMENT: 24

AIM: To create Applications using TCP ECHO SERVER AND CLIENT.

PROGRAM CODING:

EchoClient.java import java.io.*; import java.net.*; public class echoc
```
{
public static void main(String[] args)
{
try
{
Socket s = new Socket("127.0.0.1",9999); BufferedReader r = new BufferedReader(new
InputStreamReader(s.getInputStream()));
PrintWriter w = new PrintWriter(s.getOutputStream(),true); BufferedReader con = new
BufferedReader (new
InputStreamReader(System.in));
String line; do
{
line = r.readLine(); if(line != null)
System.out.println(line); line = con.readLine(); w.println(line);
}
while(!line.trim().equals("bye"));
}catch(Exception e)
{
System.err.println(e);
}
}
}
```
Echoserver.java
```
import java.io.*; import java.net.*; public class echos
{
public echos(int portNum)
{
try
{server = new ServerSocket(portNum);} catch(Exception e)
{System.out.println(e);}
}
public void serve()
{ try
{
while(true)
{
        Socket client = server.accept();
```

```java
BufferedReader r = new BufferedReader(new InputStreamReader(client.getInputStream()));
PrintWriter w = new PrintWriter(client.getOutputStream(),true);
w.println("Welcome jeva Server Echo"); String line;
do
{
line = r.readLine(); if(line!=null)
w.println("Got: "+line);
}
while(!line.trim().equals("bye")); client.close();
}
}catch(Exception e)
{
System.err.println(e);
}
}
public static void main(String[] args)
{
echos s = new echos(9999); s.serve();
}
private ServerSocket server;
}
```

OUTPUT:
Z:\CN>java echoc Welcome jeva Server Echo Hi!!
        Got: Hi!!