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package thread;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.InetAddress;
import java.net.ServerSocket;
import java.net.Socket;

import org.junit.Test;

public class example1 {
    @Test
    public void test1() {
        Socket socket = null;
        OutputStream oStream = null;
        try {
            socket = new Socket(InetAddress .getByName("127. 0. 0. 1"), 8989);
            oStream= socket.getOutputStream();
            oStream.write("我是客户端! ".getBytes());
            //执行shutdownInput () 此方法，显示的告诉服务器端发送完毕
            socket.shutdownOutput();
            InputStream iStream = socket.getInputStream();
            byte []a = new byte[20];
            int len;
            while((len = iStream.read(a)) != -1) {
                String string =new String(a, 0, len);
                System.out.println(string);
            }
        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
        }
        finally {
            if (oStream != null) {

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        try {
            oStream.close();
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
    if (socket != null) {
        try {
            socket.close();
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}

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}

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@Test

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public void test2() {
    ServerSocket serverSocket = null;
    Socket socket = null;
    InputStream iStream = null;
    try {
        serverSocket = new ServerSocket(8989);
        socket = serverSocket .accept();
        iStream = socket.getInputStream();
        byte a[] = new byte[20];
        int len;
        while((len = iStream.read(a)) != -1) {
            String string = new String(a, 0, len);
            System.out.println(string);
        }
    }
}

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        OutputStream oStream = socket.getOutputStream();
        oStream.write("我已经收到信息!".getBytes());
        socket.shutdownInput();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
    }
    finally {
        if (iStream != null) {
            try {
                iStream.close();
            } catch (IOException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
        if (socket != null) {
            try {
                socket.close();
            } catch (IOException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
        if (serverSocket != null) {
            try {
                serverSocket.close();
            } catch (IOException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
    }
}
}
}
}
}

```

