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package thread;

import static org.hamcrest.CoreMatchers.nullValue;

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 java.util.Scanner;

import org.junit.Test;

public class tcpl {
    @Test
    public void test1() {
        Socket socket = null;
        OutputStream oStream = null;
        Scanner scanner = null;
        InputStream iStream = null;
        try {
            socket = new Socket(InetAddress.getByName("127.0.0.1"), 9090);
            oStream = socket.getOutputStream();
            System.out.println("请输入多个字符: ");
            scanner = new Scanner(System.in);
            String string = scanner.next();
            oStream.write(string.getBytes());
            //接受来自服务端的信息
            socket.shutdownOutput();
            iStream = socket.getInputStream();
            byte []b = new byte[1024];
            int len;
            while((len = iStream.read(b)) != -1) {
                String string2 = new String(b, 0, len);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

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        System.out.println(string2);
    }
} catch (Exception e) {
    // TODO: handle exception
    e.printStackTrace();
}
finally {
    if (scanner != null) {
        scanner.close();
    }
    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 (oStream != null) {
        try {
            oStream.close();
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}
}

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}
@Test
public void test2() {
    ServerSocket ssSocket = null;
    Socket socket = null;
    InputStream iStream = null;
    String string1 = null;
    OutputStream oStream = null;
    try {
        ssSocket = new ServerSocket(9090);
        socket = ssSocket.accept();
        iStream = socket.getInputStream();
        byte [] b = new byte[1024];
        int len;
        while((len = iStream.read(b)) != -1) {
            String string =new String(b,0,len);
            string1 += string;
        }
        String s1 = string1.toUpperCase();
        //返回给客户端
        oStream= socket.getOutputStream();
        oStream.write(s1.getBytes());
        System.out.println(string1);
        System.out.println(s1);
        socket.shutdownOutput();
    } catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
    }
    finally {
        if (iStream != null) {
            try {
                iStream.close();
            } catch (IOException e) {
                // TODO Auto-generated catch block

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

```