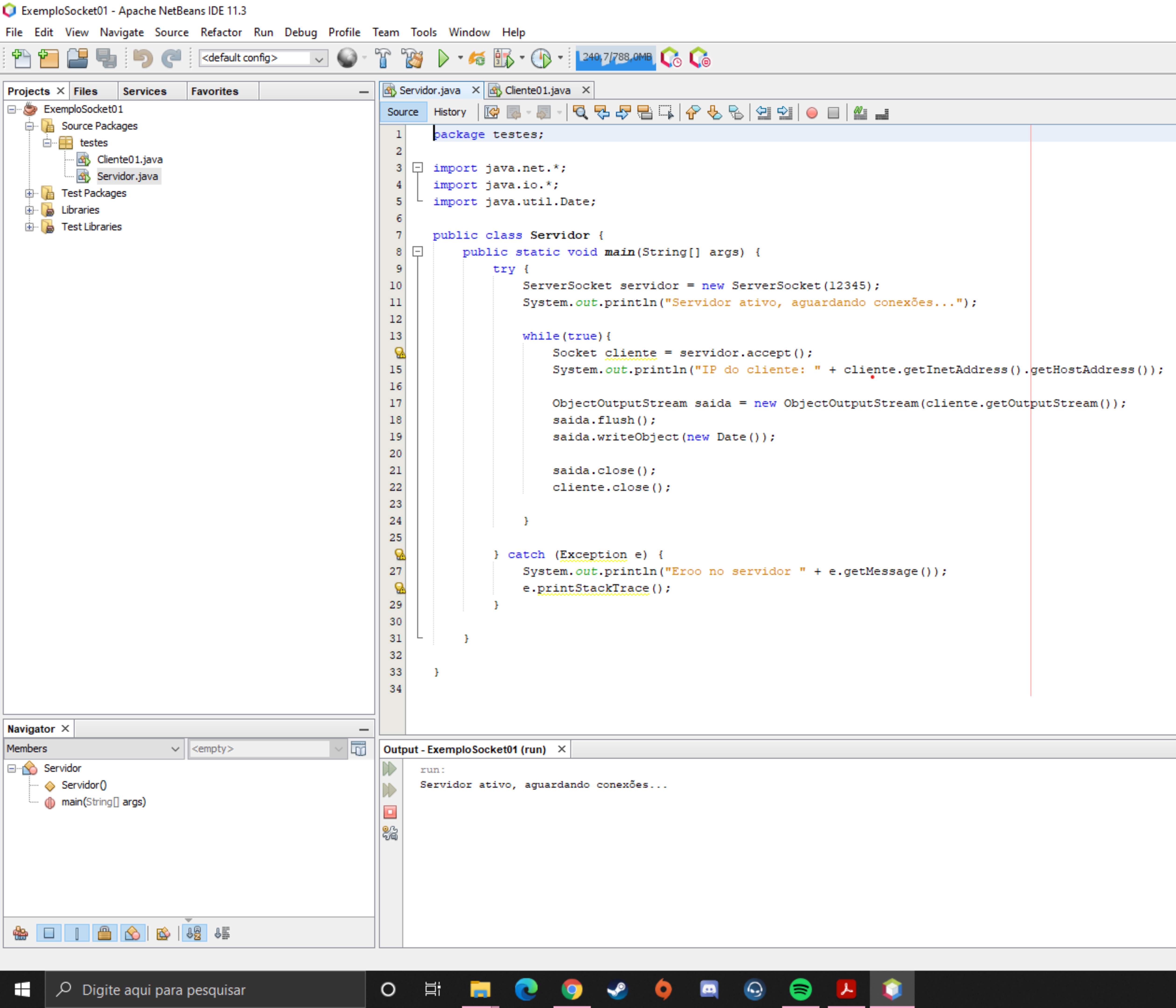
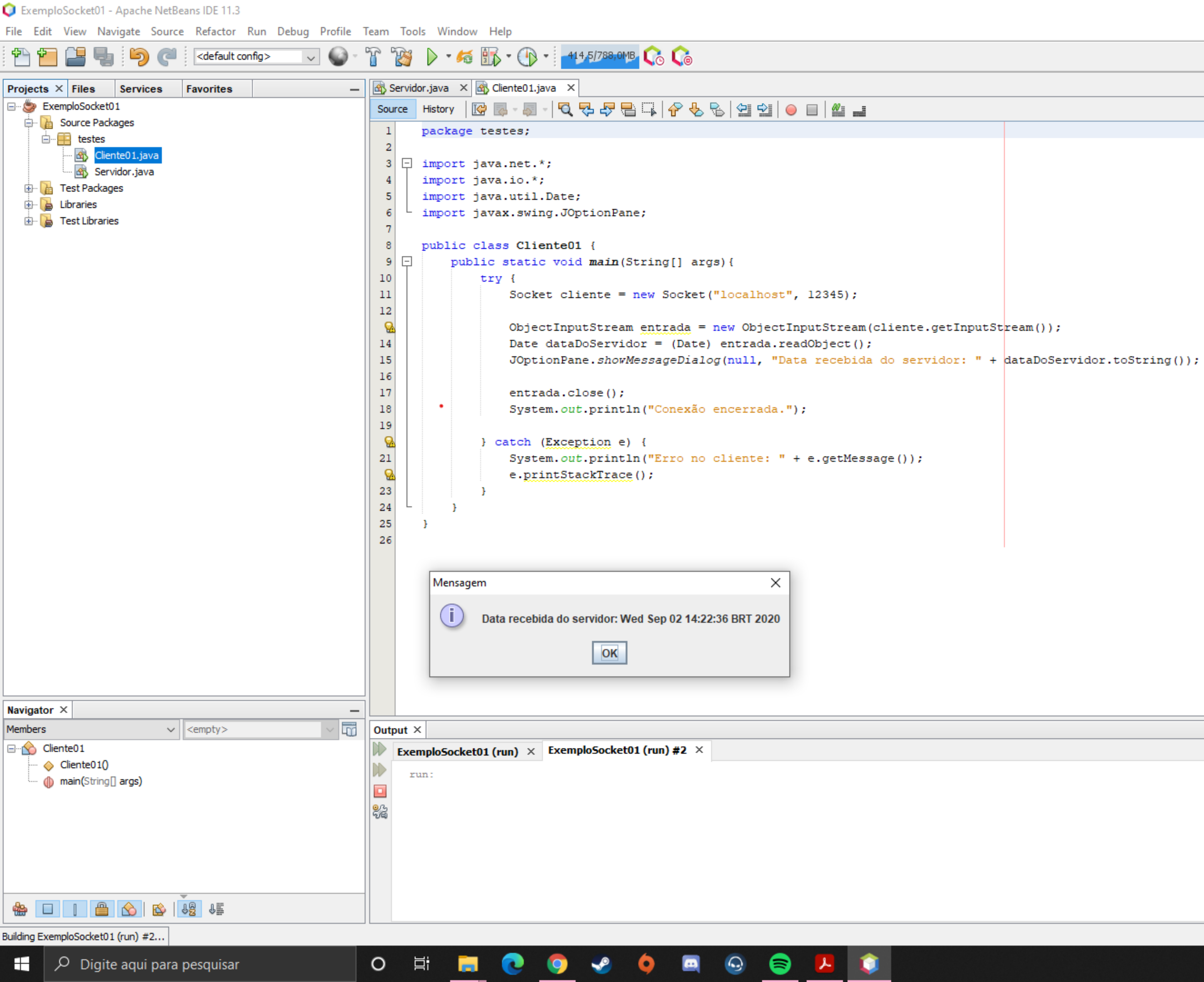


```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;

public class Servidor {
    public static void main(String[] args) {
        try {
            ServerSocket servidor = new ServerSocket(12345);
            System.out.println("Servidor ativo, aguardando conexões...");

            while(true){
                Socket cliente = servidor.accept();
                System.out.println("IP do cliente: " + cliente.getInetAddress().getHostAddress());

                ObjectOutputStream saida = new ObjectOutputStream(cliente.getOutputStream());
                saida.flush();
                saida.writeObject(new Date());

                saida.close();
                cliente.close();

            }

        } catch (Exception e) {
            System.out.println("Eroo no servidor " + e.getMessage());
            e.printStackTrace();
        }

    }

}
```

```
run:
Servidor ativo, aguardando conexões...
```



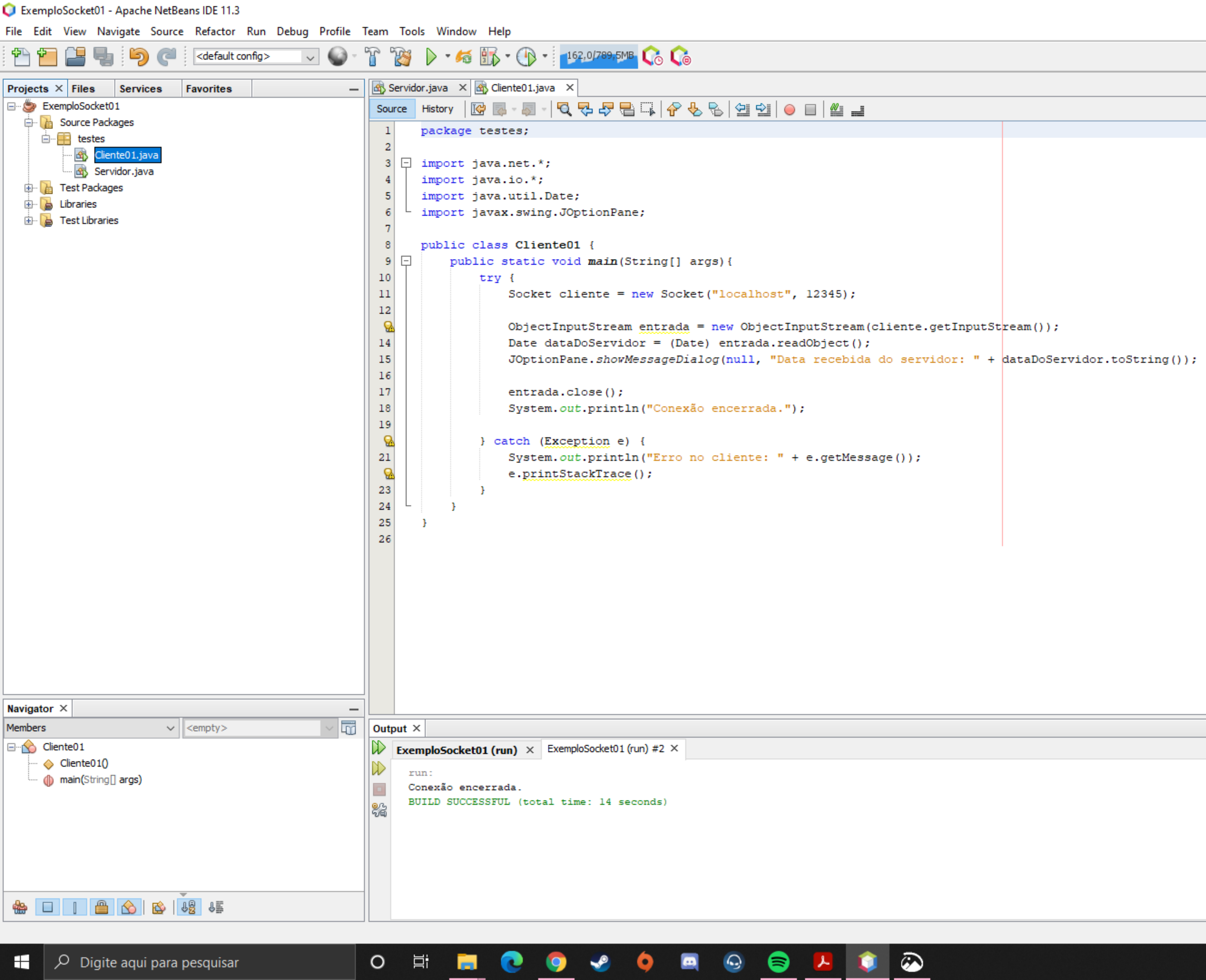
```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

Mensagem

Data recebida do servidor: Wed Sep 02 14:22:36 BRT 2020

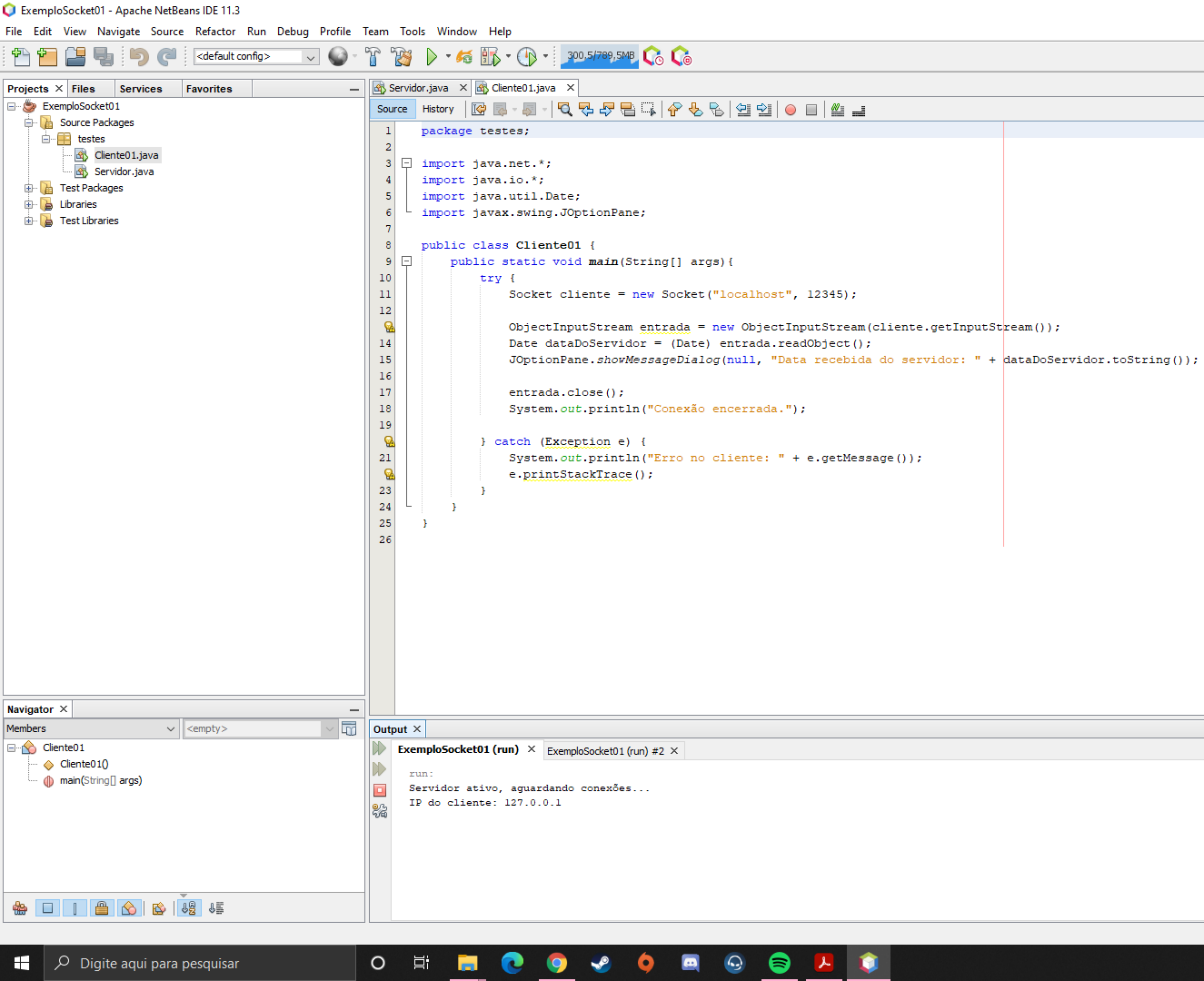
OK

```
run:
```



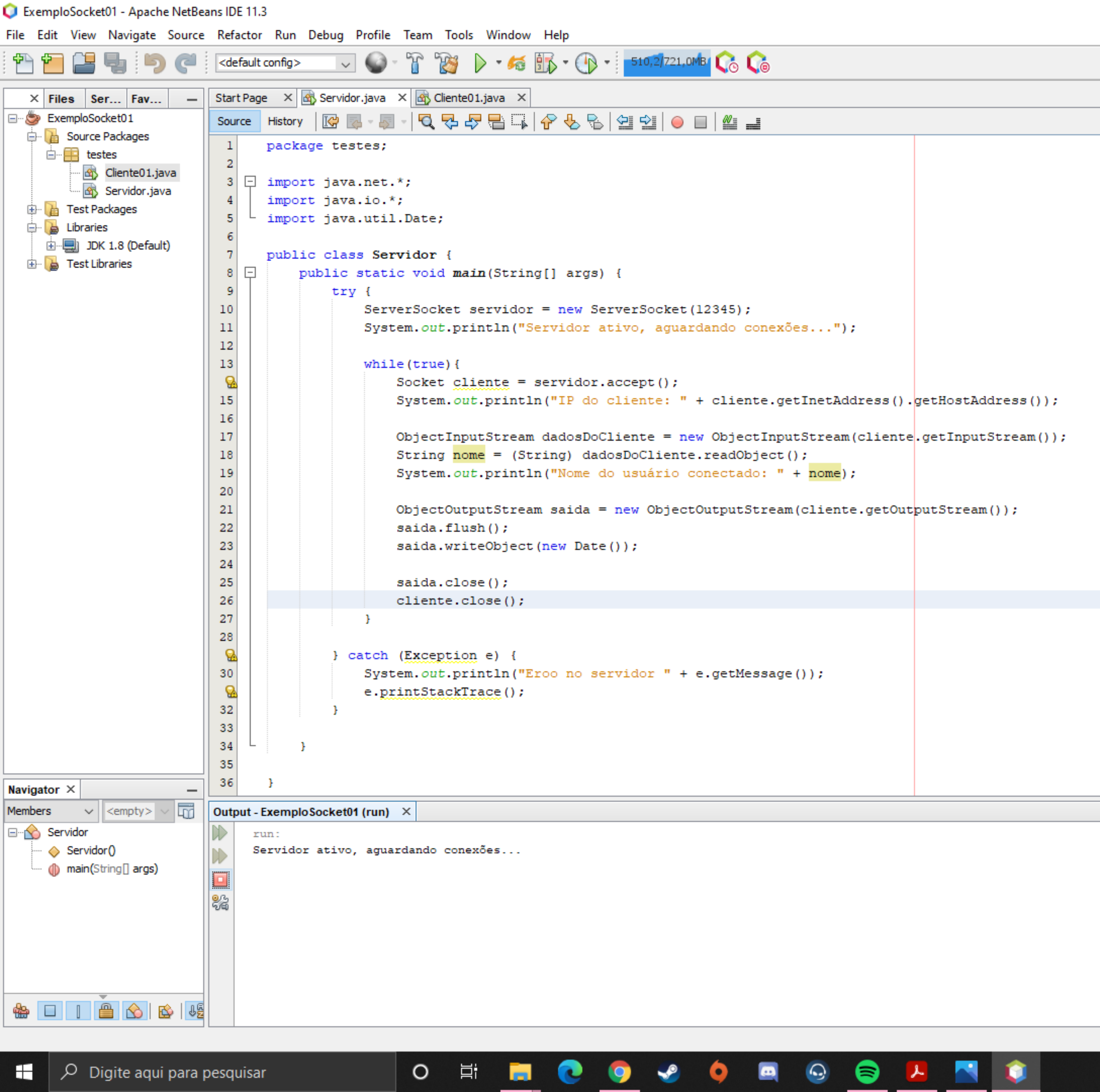
```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

```
run:
Conexão encerrada.
BUILD SUCCESSFUL (total time: 14 seconds)
```



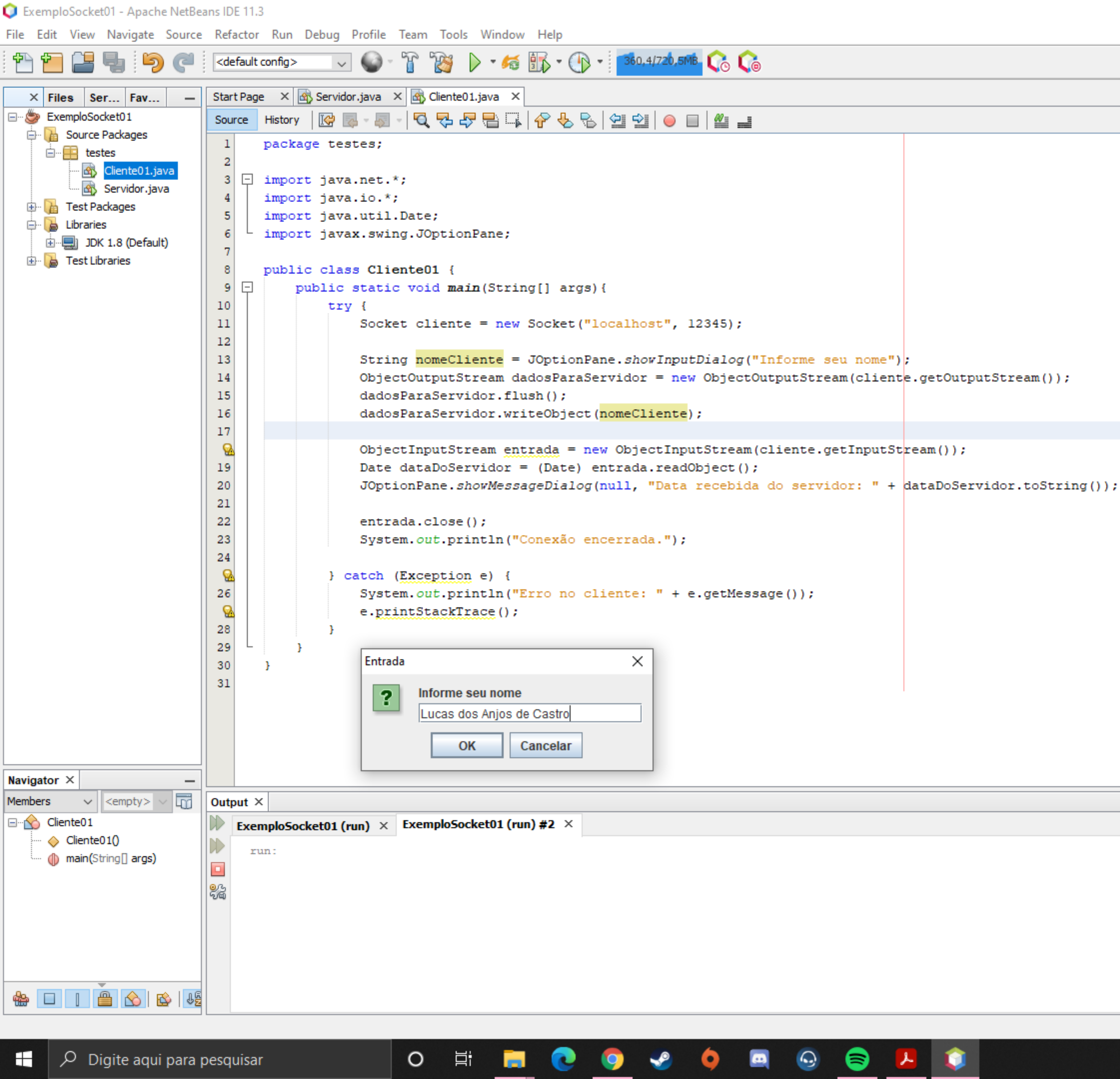
```
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

```
run:
Servidor ativo, aguardando conexões...
IP do cliente: 127.0.0.1
```



```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;

public class Servidor {
    public static void main(String[] args) {
        try {
            ServerSocket servidor = new ServerSocket(12345);
            System.out.println("Servidor ativo, aguardando conexões...");

            while(true){
                Socket cliente = servidor.accept();
                System.out.println("IP do cliente: " + cliente.getInetAddress().getHostAddress());

                ObjectInputStream dadosDoCliente = new ObjectInputStream(cliente.getInputStream());
                String nome = (String) dadosDoCliente.readObject();
                System.out.println("Nome do usuário conectado: " + nome);

                ObjectOutputStream saida = new ObjectOutputStream(cliente.getOutputStream());
                saida.flush();
                saida.writeObject(new Date());

                saida.close();
                cliente.close();
            }

        } catch (Exception e) {
            System.out.println("Eroo no servidor " + e.getMessage());
            e.printStackTrace();
        }

    }

}
```

```
run:
Servidor ativo, aguardando conexões...
```



```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            String nomeCliente = JOptionPane.showInputDialog("Informe seu nome");
            ObjectOutputStream dadosParaServidor = new ObjectOutputStream(cliente.getOutputStream());
            dadosParaServidor.flush();
            dadosParaServidor.writeObject(nomeCliente);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

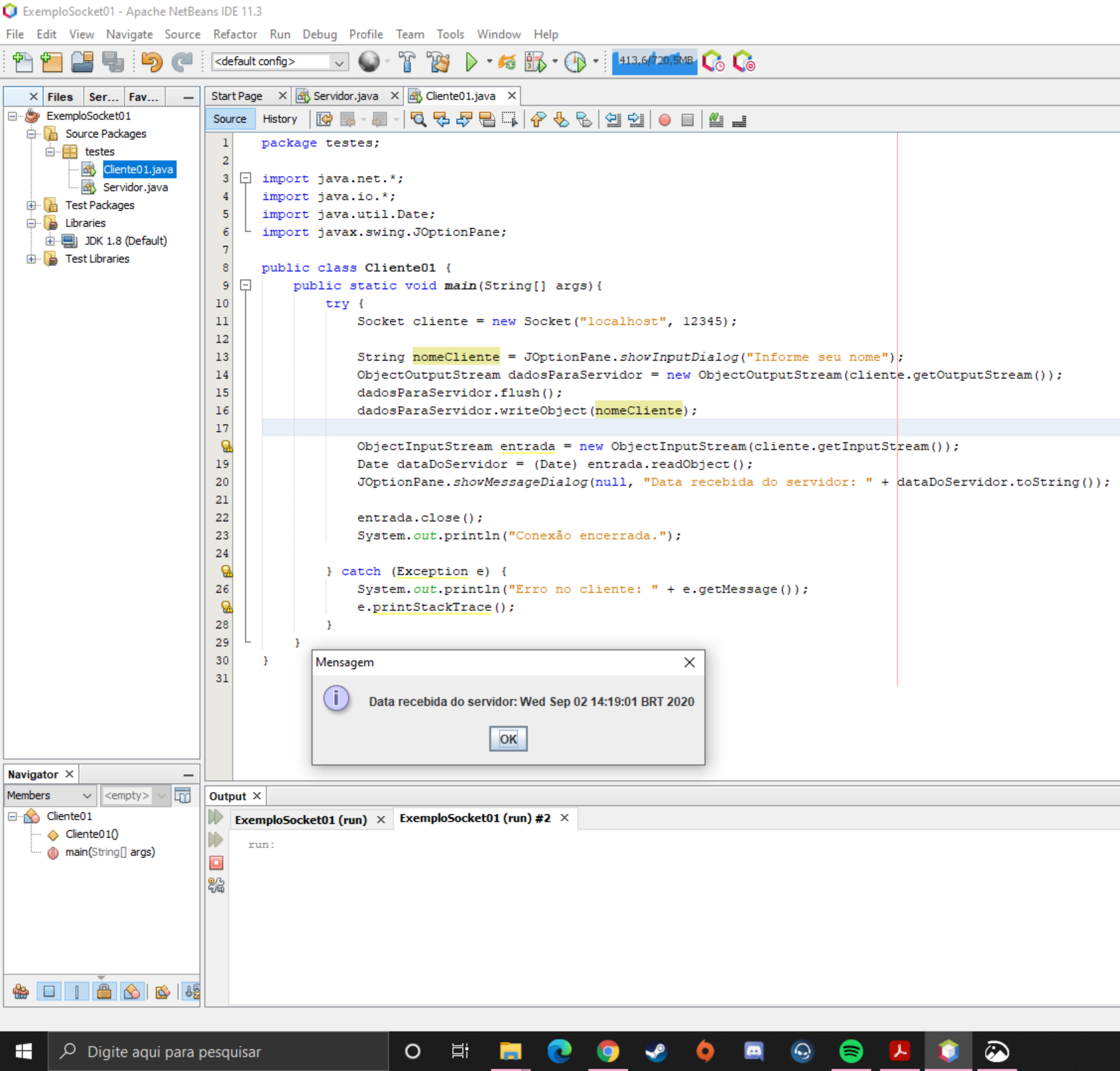
Entrada

Informe seu nome

Lucas dos Anjos de Castro

OK Cancelar

```
run:
```



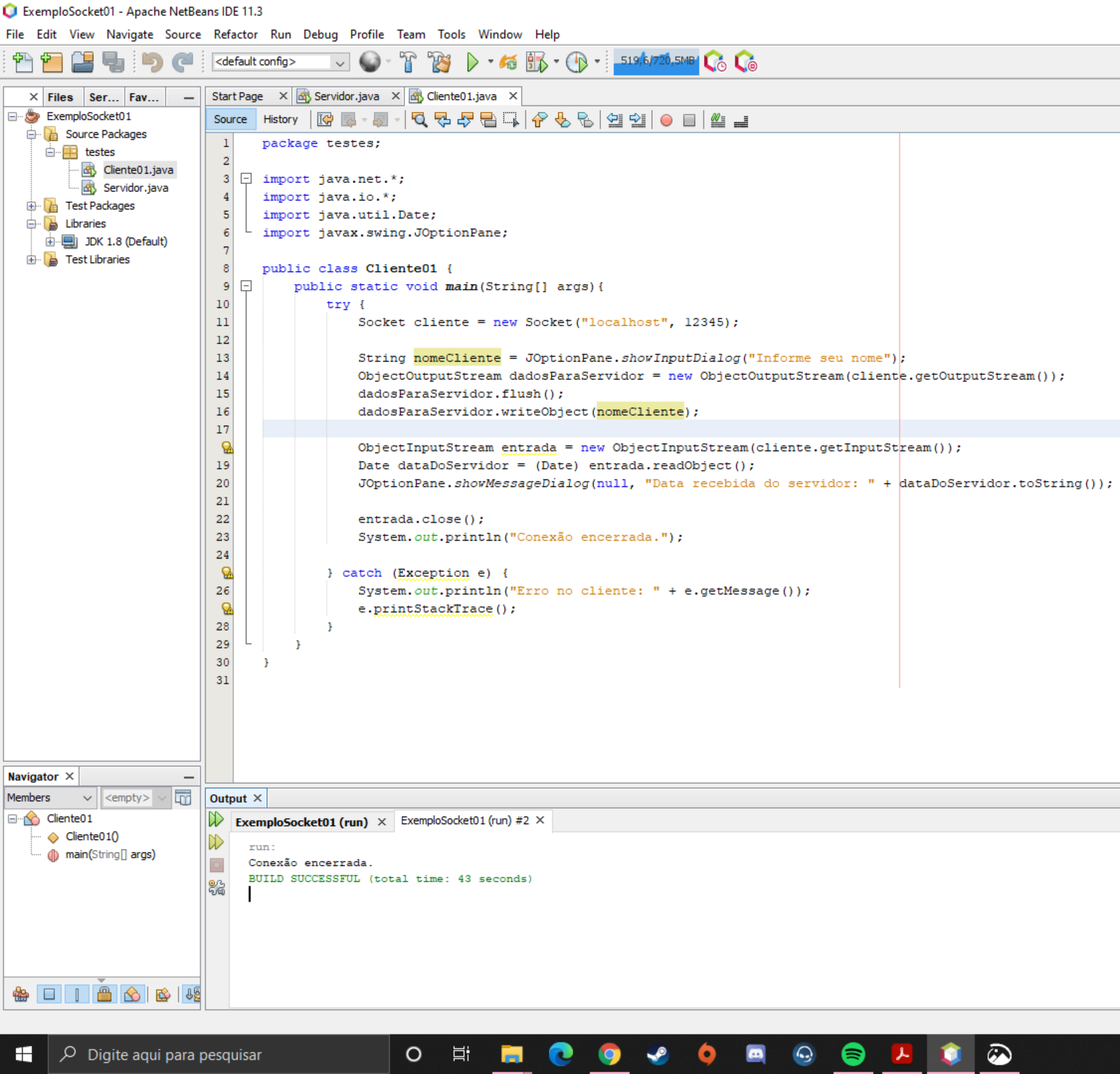
```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            String nomeCliente = JOptionPane.showInputDialog("Informe seu nome");
            ObjectOutputStream dadosParaServidor = new ObjectOutputStream(cliente.getOutputStream());
            dadosParaServidor.flush();
            dadosParaServidor.writeObject(nomeCliente);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

Mensagem

Data recebida do servidor: Wed Sep 02 14:19:01 BRT 2020

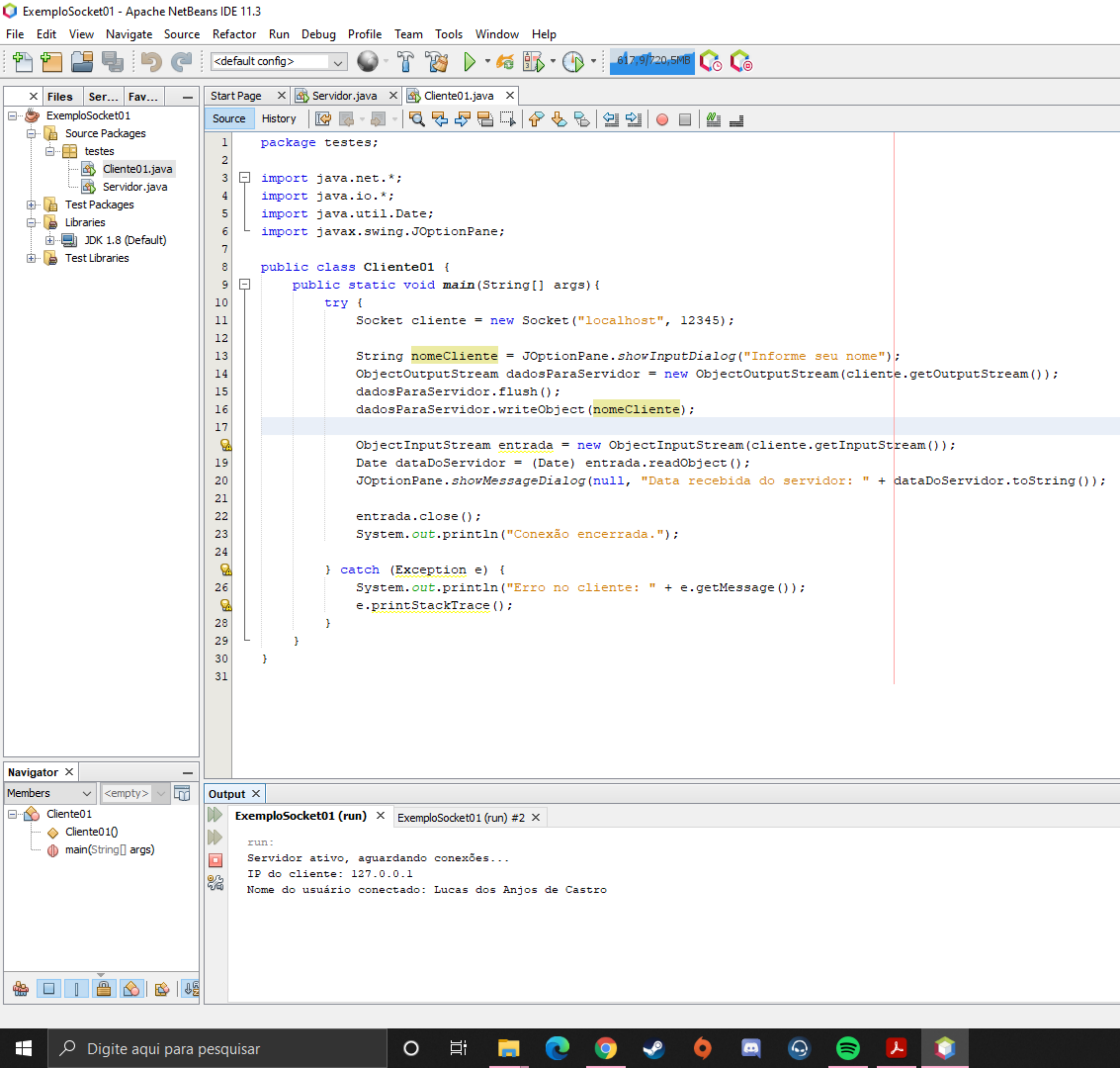
OK

```
run:
```



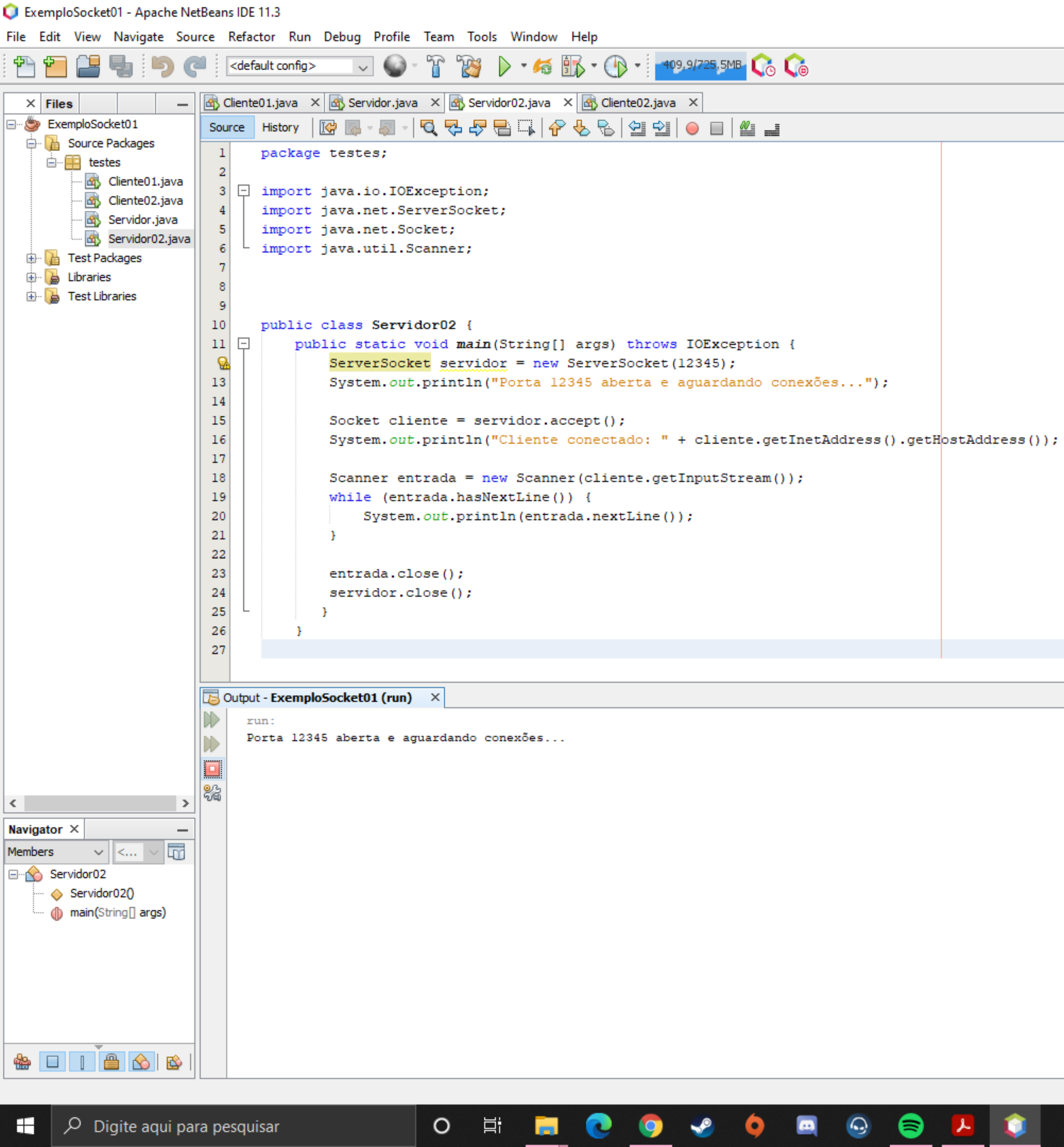
```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            String nomeCliente = JOptionPane.showInputDialog("Informe seu nome");
            ObjectOutputStream dadosParaServidor = new ObjectOutputStream(cliente.getOutputStream());
            dadosParaServidor.flush();
            dadosParaServidor.writeObject(nomeCliente);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

```
run:
Conexão encerrada.
BUILD SUCCESSFUL (total time: 43 seconds)
```



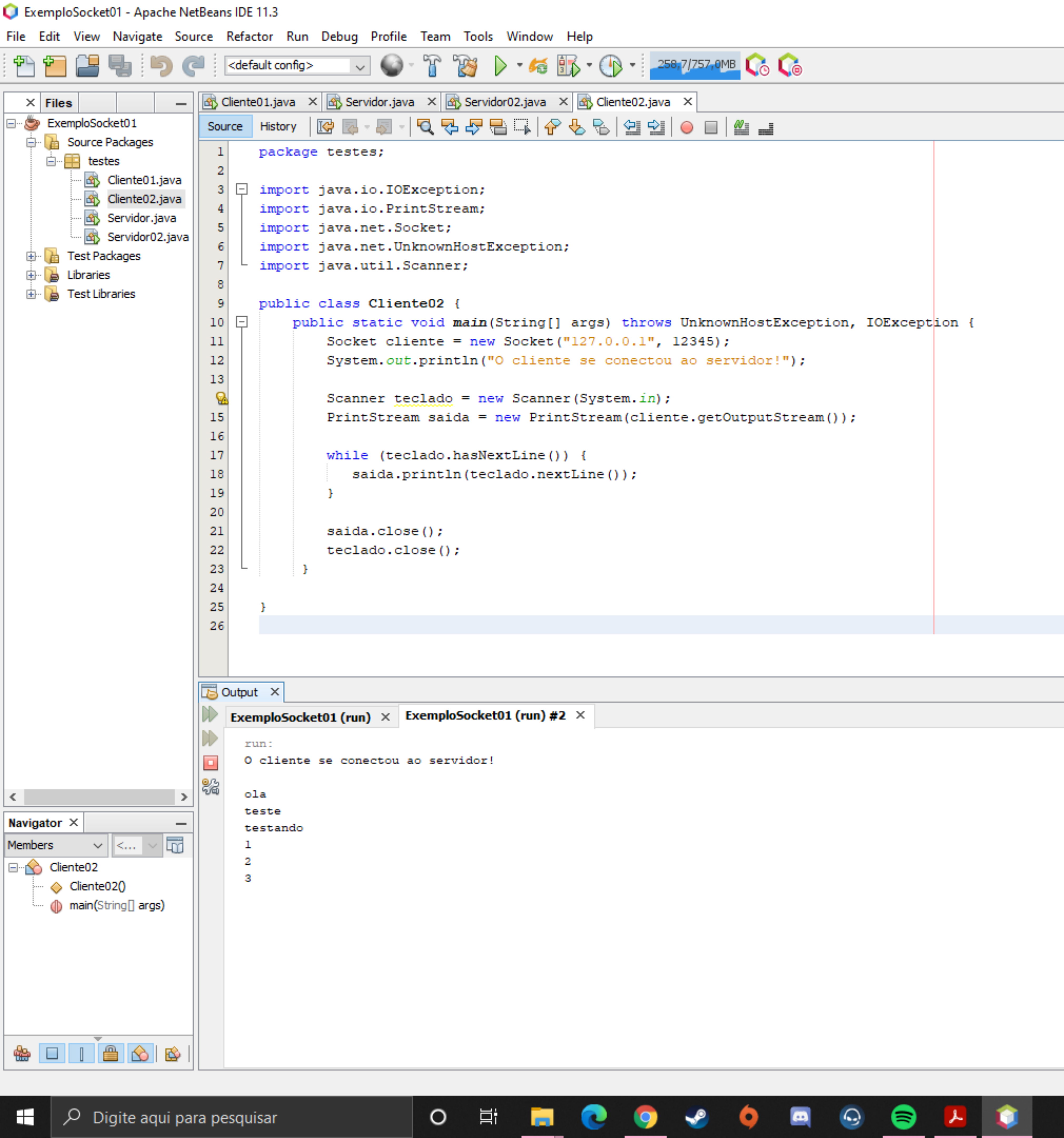
```java
package testes;

import java.net.*;
import java.io.*;
import java.util.Date;
import javax.swing.JOptionPane;

public class Cliente01 {
    public static void main(String[] args){
        try {
            Socket cliente = new Socket("localhost", 12345);

            String nomeCliente = JOptionPane.showInputDialog("Informe seu nome");
            ObjectOutputStream dadosParaServidor = new ObjectOutputStream(cliente.getOutputStream());
            dadosParaServidor.flush();
            dadosParaServidor.writeObject(nomeCliente);

            ObjectInputStream entrada = new ObjectInputStream(cliente.getInputStream());
            Date dataDoServidor = (Date) entrada.readObject();
            JOptionPane.showMessageDialog(null, "Data recebida do servidor: " + dataDoServidor.toString());

            entrada.close();
            System.out.println("Conexão encerrada.");

        } catch (Exception e) {
            System.out.println("Erro no cliente: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

```
run:
Servidor ativo, aguardando conexões...
IP do cliente: 127.0.0.1
Nome do usuário conectado: Lucas dos Anjos de Castro
```



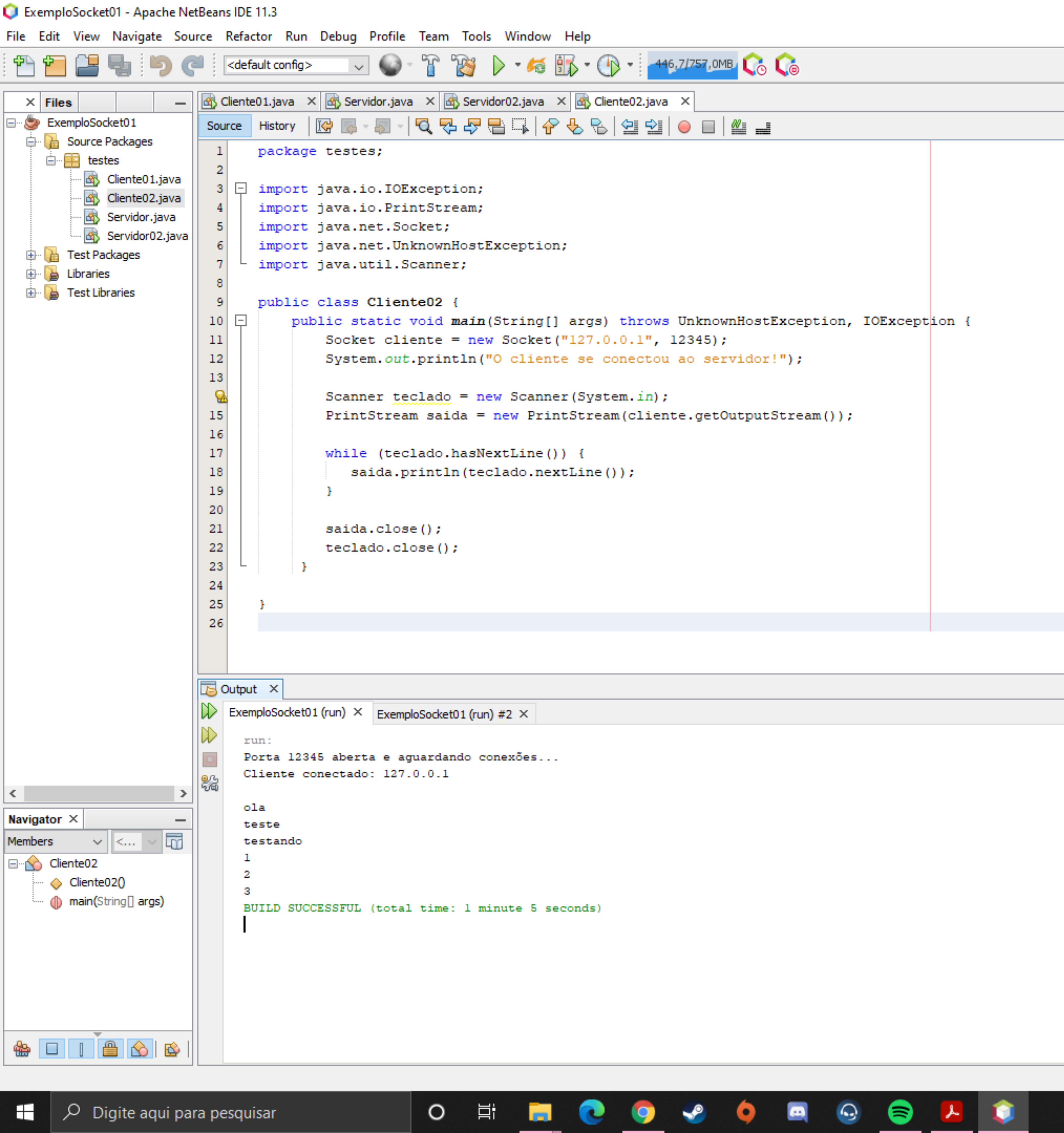
```java
package testes;

import java.io.IOException;
import java.net.ServerSocket;
import java.net.Socket;
import java.util.Scanner;



public class Servidor02 {
    public static void main(String[] args) throws IOException {
        ServerSocket servidor = new ServerSocket(12345);
        System.out.println("Porta 12345 aberta e aguardando conexões...");

        Socket cliente = servidor.accept();
        System.out.println("Cliente conectado: " + cliente.getInetAddress().getHostAddress());

        Scanner entrada = new Scanner(cliente.getInputStream());
        while (entrada.hasNextLine()) {
            System.out.println(entrada.nextLine());
        }

        entrada.close();
        servidor.close();
       }
    }

```

```
run:
Porta 12345 aberta e aguardando conexões...
```



```java
package testes;

import java.io.IOException;
import java.io.PrintStream;
import java.net.Socket;
import java.net.UnknownHostException;
import java.util.Scanner;

public class Cliente02 {
    public static void main(String[] args) throws UnknownHostException, IOException {
        Socket cliente = new Socket("127.0.0.1", 12345);
        System.out.println("O cliente se conectou ao servidor!");

        Scanner teclado = new Scanner(System.in);
        PrintStream saida = new PrintStream(cliente.getOutputStream());

        while (teclado.hasNextLine()) {
            saida.println(teclado.nextLine());
        }

        saida.close();
        teclado.close();
    }

}
```

```
run:
O cliente se conectou ao servidor!

ola
teste
testando
1
2
3
```



```java
package testes;

import java.io.IOException;
import java.io.PrintStream;
import java.net.Socket;
import java.net.UnknownHostException;
import java.util.Scanner;

public class Cliente02 {
    public static void main(String[] args) throws UnknownHostException, IOException {
        Socket cliente = new Socket("127.0.0.1", 12345);
        System.out.println("O cliente se conectou ao servidor!");

        Scanner teclado = new Scanner(System.in);
        PrintStream saida = new PrintStream(cliente.getOutputStream());

        while (teclado.hasNextLine()) {
            saida.println(teclado.nextLine());
        }

        saida.close();
        teclado.close();
    }

}
```

```
run:
Porta 12345 aberta e aguardando conexões...
Cliente conectado: 127.0.0.1

ola
teste
testando
1
2
3
BUILD SUCCESSFUL (total time: 1 minute 5 seconds)
```