

CS242 “Clack” Project Part 3

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Code for the full project can be found at https://github.com/jnschmidt18/CS242_Project, as only code for some classes and their outputs are shown below.

Code for testClackClient

```
package test;

import main.ClackClient;

public class testClackClient{
    public static void main(String[] args){
        ClackClient client1 = new ClackClient("user", "host", 1234);
        ClackClient client2 = new ClackClient("user", "host", 1234);
        ClackClient client3 = new ClackClient();

        System.out.println(client1);
        System.out.println(client2);
        System.out.println(client3);

        System.out.println(client1.hashCode());
        System.out.println(client2.hashCode());
        System.out.println(client3.hashCode());

        System.out.println();

        System.out.println(client1.equals(client2));
        System.out.println(!(client2.equals(client3)));
        System.out.println(client3.equals(client3));

    }
}
```

Output from run of testClackClient

```
The userName for this ClackClient is:  user
The hostName for this ClackClient is:  host
The port for this ClackClient is:      1234
```

The data sent out is:

null

The data received is:

null

The connection is closed: **true**

The userName **for this** ClackClient is: user

The hostName **for this** ClackClient is: host

The port **for this** ClackClient is: **1234**

The data sent out is:

null

The data received is:

null

The connection is closed: **true**

The userName **for this** ClackClient is: Anon

The hostName **for this** ClackClient is: localhost

The port **for this** ClackClient is: **7000**

The data sent out is:

null

The data received is:

null

The connection is closed: **true**

-43230709

-43230709

-215010420

```
true
true
true
```

Process finished with exit code 0

Output from running clackServer, then running clackClient, and giving the instance of clackClient the input “m”. Program was terminated by IDE, hence the exit code of 130.

```
The userName for this ClackData is:      Anon
The Data Type for this ClackData is:      2
This ClackData was created at:           Tue Nov 16 11:46:00 EST 2021
The data for this ClackData is:          m
```

Process finished with exit code 130

Testing cross-computer communication, with and without specified ports

Client-side:

```
PS
C:\Users\jnsch\IdeaProjects\CS242_Project\out\artifacts\ClackClient.jar> java -jar .\ClackClient.jar testName@128.153.169.252
test
test
```

Server-side:

```
PS
C:\Users\pdrus\IdeaProjects\CS242_Project\out\artifacts\ClackServer.jar> java -jar ClackServer.jar
The userName for this ClackData is:      testName
The Data Type for this ClackData is:      2
This ClackData was created at:           Tue Nov 16 12:00:01 EST 2021
The data for this ClackData is:          test
```