

Some instructions for running Java RMI code on your own system -- thanks to C322 AIs:

- Make sure you have the Java JDK ready, and already configured its path.
  - Details for configuring the Java path are available on [java.com](https://www.java.com/en/download/help/path.html):  
<https://www.java.com/en/download/help/path.html>

1. First compile all Java files, then start by running *rmiregistry* within one command line/terminal window:

```
03/15/2021 03:19 PM      48,109 RMI-testing-instructions.pdf
03/15/2021 03:19 PM      920 RMIdemo.java
03/15/2021 03:19 PM      900 Terminal-Saved-Output-RMI-client.txt
03/15/2021 03:19 PM      96 Terminal-Saved-Output-RMI-server.txt
03/15/2021 03:19 PM      59 Terminal-Saved-Output-rmiregistry.txt
03/15/2021 03:19 PM      196 WeatherIntf.java
03/15/2021 03:19 PM      1,010 WeatherServer.java
10 File(s)          300,574 bytes
2 Dir(s)          815,072,313,344 bytes free

C:\Users\Brock\Downloads\C322-instructors-repo-master\C322-instructors-repo-master\grading\rubrics\labs\RMItest>javac WeatherIntf.java
C:\Users\Brock\Downloads\C322-instructors-repo-master\C322-instructors-repo-master\grading\rubrics\labs\RMItest>javac WeatherServer.java
C:\Users\Brock\Downloads\C322-instructors-repo-master\C322-instructors-repo-master\grading\rubrics\labs\RMItest>javac RMIdemo.java
C:\Users\Brock\Downloads\C322-instructors-repo-master\C322-instructors-repo-master\grading\rubrics\labs\RMItest>rmiregistry
```

If you see a permission window pop up, click OK, then you should see the terminal running *rmiregistry* (don't type anything in that same window, also, there is no additional log printed)

2. In another terminal, run *java -Djava.security.policy=permit WeatherServer*

```
03/15/2021 03:41 PM      223 WeatherIntf.class
03/15/2021 03:19 PM      196 WeatherIntf.java
03/15/2021 03:41 PM      1,063 WeatherServer.class
03/15/2021 03:19 PM      1,010 WeatherServer.java
13 File(s)          303,177 bytes
2 Dir(s)          815,036,694,528 bytes free

C:\Users\Brock\Downloads\C322-instructors-repo-master\C322-instructors-repo-master\grading\rubrics\labs\RMItest>java -Djava.security.policy=permit WeatherServer
```

If you see a permission window pop up, click OK. You should then see *your RMI server* running (don't type anything in that same window, also, there is no additional log printed)

3. In another terminal, run *java RMIdemo*

```
The weather will be rainy
The weather will be rainy
The weather will be rainy
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be rainy
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be rainy
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be sunny
The weather will be rainy
The weather will be rainy
The weather will be sunny
The weather will be rainy
```

You should see the terminal printing, approximately at random:

"The weather will be sunny"

"The weather will be rainy"

etc.

Some suggestions, when running on MS Windows:

- What you see in the above printouts is the standard Windows command prompt terminal window: it comes with Windows.
- You will need to navigate to the Windows directory where you placed the Java RMI code, or open the command prompt directly in that folder.
- You can type "cmd" in the address bar of a Windows folder and hit enter to open the command prompt there.