

Assignment 0: Getting Started with Scala

CSE271: Principles of Programming Languages

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Out: Sep 10, 2021 (Friday)

Due: N/A

What to submit

None.

Scala environment

1. Please install Java 11 and make sure you configure environment variables in your machine. You can download and install here.

<https://adoptopenjdk.net/>

Download and install OpenJDK 11(LTS), HotSpot

You can check if you have Java installed by using the following command in a terminal (Windows: PowerShell, Mac/Linux: Terminal). You can also use the terminal through VS Code.

Command Line

```
java -version
```

If you have Java 11 successfully installed, you'll see messages like these.

Sample Output

```
openjdk version "11.0.8" 2020-07-14
OpenJDK Runtime Environment AdoptOpenJDK (build 11.0.8+10)
OpenJDK 64-Bit Server VM AdoptOpenJDK (build 11.0.8+10, mixed mode)
```

Sample Output

```
openjdk version "11.0.2" 2019-01-15
OpenJDK Runtime Environment 18.9 (build 11.0.2+9)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.2+9, mixed mode)
```

2. Now you can work with the assignment. Using a terminal, run sbt using these commands.
On Windows,

Command Line

```
sbt/bin/sbt.bat
```

On Mac/Linux,

Command Line

```
sbt/bin/sbt
```

It may take a long time to collect all necessary files from the internet when you first run the command.

3. Once everything has been collected, you will enter the sbt shell. If you want to play through the entry point, type `run`. This command will execute `src/main/scala/Hw0.scala`.

Command Line

```
sbt:hw0-cse271> run
```

Sample Output

```
[info] running Hw0
Hw0! Put any code below to play with Scala.
[success] Total time: 0 s, completed xxxxx
```

You can type `test` to test your submissions for next assignments. It will test the submission using accompanied test cases in `src/test/scala/Hw0Test.scala`.

Command Line

```
sbt:hw0-cse271> test
```

Sample Output

```
[info] Hw0Test:
[info] - Hw0.square
[info] Run completed in 345 milliseconds.
[info] Total number of tests run: 1
[info] Suites: completed 1, aborted 0
[info] Tests: succeeded 1, failed 0, canceled 0, ignored 0, pending 0
[info] All tests passed.
[success] Total time: 1 s, completed xxxxx
```