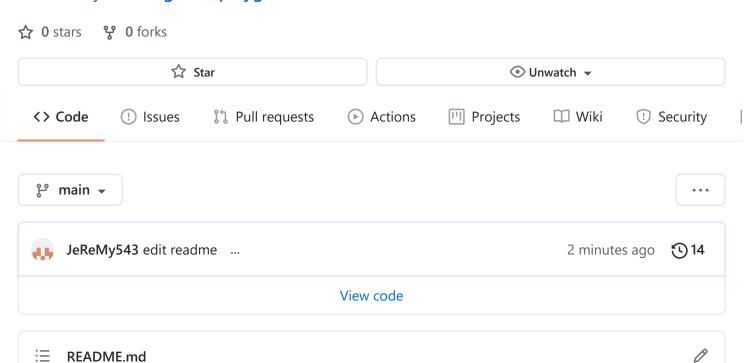
☐ JeReMy543 / seg3103_playground



Lab 01

Outline	Value
Course	SEG 3103
Date	Summer 2021
Professor	Andrew Forward, aforward@uottawa.ca
TA	Zahra Kakavand, zkaka044@uottawa.ca
Team	Xinhao Zhang 8761627

Deliverables

- https://github.com/JeReMy543/seg3103_playground
- Shared repo above with TA and Professors

Java

\$ java --version
java 15.0.1 2020-10-20

```
Java(TM) SE Runtime Environment (build 15.0.1+9-18)
Java HotSpot(TM) 64-Bit Server VM (build 15.0.1+9-18, mixed mode, sharing)
```

First compile the code by the following command.

```
javac -encoding UTF-8 --source-path src -d dist src/*.java
```

Then run it

```
java -cp ./dist Main
```

Here is an output of the running program

```
Newmath (type 'exit' to exit program)
Numerator: 52
Demoninator: 26
52 / 26 = 2
Numerator: exit
```

This is the screenshot of the output

JUnit

I am working with JUnit 5 (via Console standalone 1.7.1)

To run JUnit, I need to compile the application (see above), and then compile the test code

```
javac -encoding UTF-8 --source-path test -d dist -cp lib/junit-platform-console-stan
```

Then I run the tests using

```
java -jar lib/junit-platform-console-standalone-1.7.1.jar --class-path dist --scan-c
```

Here is the screenshot of the tests

```
C:\Users\jerem\OneDrive\🛭 🖟 \seg3103\seg3103_playground\newmath_java>java -jar lib/junit-platform-console-standalone-1.7
 1.jar --class-path dist --scan-class-path
Thanks for using JUnit! Support its development at https://junit.org/sponsoring
 [36m.←[0m
 -[36m.←[0M
-[36m+--←[0m ←[36m]Unit Jupiter←[0m ←[32m[0K]←[0m
-[36m| '--←[0m ←[36mNewmathTest←[0m ←[32m[0K]←[0m
-[36m| +--←[0m ←[34mdiv_ok()←[0m ←[32m[0K]←[0m
-[36m| '--←[0m ←[34mdiv_by_zero()←[0m ←[32m[0K]←[0m
-[36m'--←[0m ←[36m]Unit Vintage←[0m ←[32m[0K]←[0m
Test run finished after 62 ms
            3 containers found
             0 containers skipped
             3 containers started
            0 containers aborted
             3 containers successful
            0 containers failed
             2 tests found
            0 tests skipped
             2 tests started
             0 tests aborted
             2 tests successful
             0 tests failed
```

Elixir

I am running Elixir 12.0 with Erlang 22

```
Erlang/OTP 22 [erts-10.7] [64-bit] [smp:12:12] [ds:12:12:10] [async-threads:1]
Elixir 1.12.0 (compiled with Erlang/OTP 22)
```

To run the Elixir program (in newmath_ex), first I compile it

```
mix compile
```

Then I run it

```
iex -S mix
```

Here is an output of the running program

```
NewmathEx.div(52,26) {:ok, 2.0}
```

With a screenshot from the terminal

```
C:\Users\jerem\OneDrive\2 2 \seg3103\seg3103_playground\newmath_ex>iex -S mix Interactive Elixir (1.12.0) - press Ctrl+C to exit (type h() ENTER for help) iex(1)> NewmathEx.div(52,26) {:ok, 2.0} iex(2)> a
```

ExUnit

ExUnit is built directly into Elixir (and compiled like above with mix compile)

To run the tests

```
mix test
```

Here is the output of the tests

```
Finished in 0.04 seconds (0.00s async, 0.04s sync)

1 doctest, 2 tests, 0 failures

Randomized with seed 792000
```

With a screenshot from the terminal

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Languages

• Java 46.4% • Elixir 35.0% • Shell 18.6%