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# Lab 01 - SEG 3103 Playground

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Course: SEG 3103

Date: Thursday May 20, 2021

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## Link for deliverable

- [https://github.com/CodingPatrick/seg3103\\_playgrou](https://github.com/CodingPatrick/seg3103_playgrou)

Lab01 for SEG3103

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## Releases

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## Languages



● Java 46.4%

● Elixir 35.0%

● Shell 18.6%

nd

- The pdf file of the screencapture is found in the submission folder in Brightspace

## Running newmath\_java

### Running Java

On my mac, I am running Java 13.0.1

```
% java --version
java 13.0.1 2019-10-15
Java(TM) SE Runtime Environment (build 13.0.1+9)
Java HotSpot(TM) 64-Bit Server VM (build 13.0.1+
```

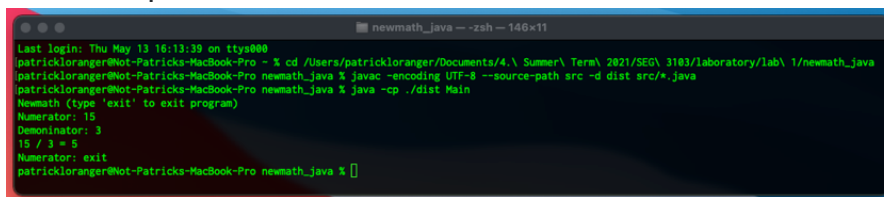
After I enter my folder, I compile the Java program in newmath\_java with this command line:

```
javac -encoding UTF-8 --source-path src -d dist
```

I then run the program with this command line:

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

This is the screenshot of what I receive on my terminal after the previous two command lines.



Here is the text output:

```
Newmath (type 'exit' to exit program)
Numerator: 15
Denominator: 3
15 / 3 = 5
```

```
Numerator: exit
```

## Running JUnit

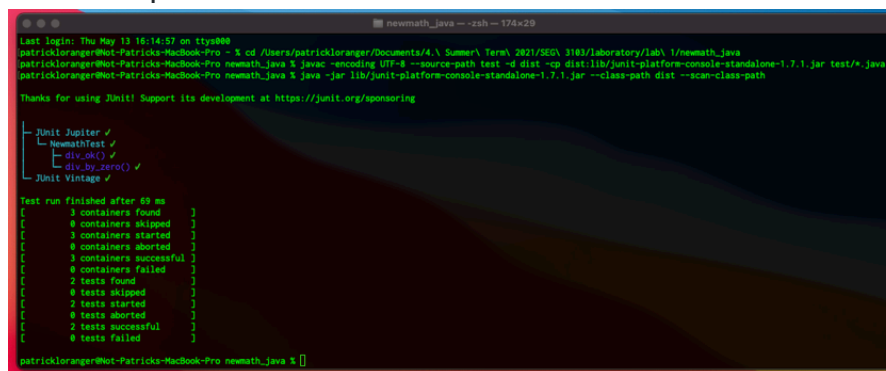
To compile the application to run JUnit, I run this command line:

```
javac -encoding UTF-8 --source-path test -d dist
```

Once it is compiled, I enter this command line to run the tests:

```
java -jar lib/junit-platform-console-standalone-
```

This is the screenshot of what I receive on my terminal after the previous two command lines.

A screenshot of a terminal window titled 'newmath\_java --ssh -- 174x29'. The terminal shows the execution of JUnit tests. At the top, it says 'Last login: Thu May 13 16:14:57 on ttyd000'. Below that, it shows the command 'cd /Users/patrickloranger/Documents/4. Summer Term 2021/S20/3103/laboratory/lab\ 1/newmath\_java' and the compilation command 'javac -encoding UTF-8 --source-path test -d dist -cp dist:lib/junit-platform-console-standalone-1.7.1.jar test/\* java'. The test results are displayed in a tree structure: 'JUnit Jupiter' with a checkmark, 'NewmathTest' with a checkmark, 'div\_ok()' with a checkmark, 'div\_by\_zero()' with a checkmark, and 'JUnit Vintage' with a checkmark. Below the tree, it says 'Test run finished after 60 ms' and shows a summary of containers found, skipped, started, aborted, successful, and failed. The summary shows 3 containers found, 0 skipped, 3 started, 0 aborted, 3 successful, and 0 failed. The terminal prompt is 'patrickloranger@MacBook-Pro: newmath\_java %'.

Here is the text output:

```
Thanks for using JUnit! Support its development
```

```
|
├─ JUnit Jupiter ✓
│   └─ NewmathTest ✓
│       ├── div_ok() ✓
│       └── div_by_zero() ✓
└─ JUnit Vintage ✓
```

```
Test run finished after 60 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            ]
```

## Running newmath\_ex

### Running Elixir

On my mac, I am running Elixir 11.4 with Erlang 23

```
% elixir --version
Erlang/OTP 23 [erts-11.2.1] [source] [64-bit] [smp:8:0] [ds:8:0:10] [async-threads:1] [hipe] [dtrace]

Elixir 1.11.4 (compiled with Erlang/OTP 23)
```

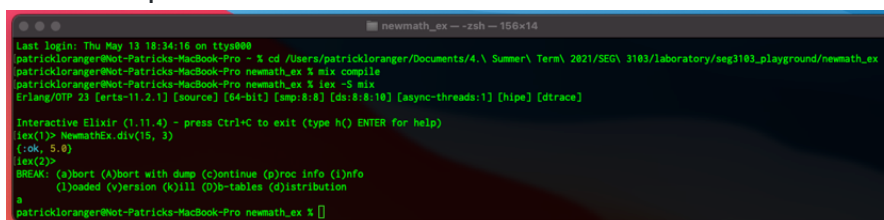
After I enter my folder, I compile the Elixir program in newmath\_ex with this command line:

```
mix compile
```

I then run the program with this command line:

```
iex -S mix
```

This is the screenshot of what I receive on my terminal after the previous two command lines.

A screenshot of a terminal window titled 'newmath\_ex --zsh -- 156x14'. The terminal shows the following output:

```
Last login: Thu May 13 18:34:16 on ttys000
patrickloranger@Not-Patricks-MacBook-Pro ~ % cd /Users/patrickloranger/Documents/4.\ Summer\ Term\ 2021/SEG\ 3103/laboratory/seg3103_playground/newmath_ex
patrickloranger@Not-Patricks-MacBook-Pro newmath_ex % mix compile
patrickloranger@Not-Patricks-MacBook-Pro newmath_ex % iex -S mix
Erlang/OTP 23 [erts-11.2.1] [source] [64-bit] [smp:8:0] [ds:8:0:10] [async-threads:1] [hipe] [dtrace]

Interactive Elixir (1.11.4) - press Ctrl+C to exit (type h() ENTER for help)
iex(1)>> NewmathEx.div(15, 3)
{:ok, 5.0}
iex(2)>>
BREAK: (a)bort (A)bort with dump (c)ontinue (p)roc info (i)nf
(l)oaded (v)ersion (k)ill (D)b-tables (d)istribution
a
patrickloranger@Not-Patricks-MacBook-Pro newmath_ex %
```

Here is the text output:

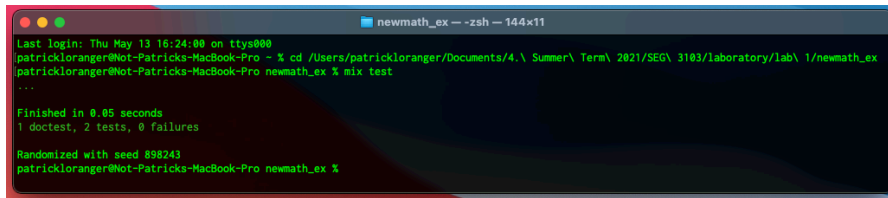
```
iex(1)> NewmathEx.div(15, 3)
{:ok, 5.0}
iex(2)>
BREAK: (a)bort (A)bort with dump (c)ontinue (p)r
       (l)oaded (v)ersion (k)ill (D)b-tables (d)
```

## Running ExUnit

To run the ExUnit tests I run this command line:

```
mix test
```

This is the screenshot of what I receive on my terminal after the previous two command lines.



Here is the text output:

```
...
```

```
Finished in 0.05 seconds
1 doctest, 2 tests, 0 failures
```

```
Randomized with seed 898243
```