

LAB 1
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GitHub Link: https://github.com/kaiser-brice/seg3505_playground.git

The screenshot shows the GitHub repository page for `kaiser-brice/seg3505_playground`. The repository is public and has 1 branch and 0 tags. The commit history table shows a recent commit by `kaiser-brice` adding a README for Lab 1. The README content is displayed below the commit history, showing the repository name and a table of course information. On the right side, there are statistics for the repository, including 0 stars, 2 watchers, and 0 forks. The 'About' section on the right indicates that no description, website, or topics are provided. The 'Releases' section shows no releases published. The 'Packages' section shows no packages published. The 'Languages' section shows a bar chart with the following data:

Language	Percentage
Java	46.4%
Elixir	35.0%
Shell	18.6%

```
# seg3505_playground_lab1
```

```
| Outline | Value |
| ----- | ----- |
| Course | SEG 3503 |
| Date | Summer 2023 |
| Professor | Mohammed Ibrahim |
| TA | Joseph Abonasara |
```

```
1. Java Version:
```

```
bricesoh@Brices-MacBook-Air ~ % java --version
java 17 2021-09-14 LTS
Java(TM) SE Runtime Environment (build 17+35-LTS-2724)
Java HotSpot(TM) 64-Bit Server VM (build 17+35-LTS-2724, mixed mode, sharing)
bricesoh@Brices-MacBook-Air ~ %
```

2. Java Program Execution

```
bricesoh@Brices-MacBook-Air newmath_java % bin/run
Newmath (type 'exit' to exit program)
Numerator: 4
Demoninator: 2
4 / 2 = 2
Numerator: 6
Demoninator: 2
6 / 2 = 3
Numerator: 
```

3. Java Test Execution

```
bricesoh@Brices-MacBook-Air newmath_java % bin/test

Thanks for using JUnit! Support its development at https://junit.org/sponsoring
```

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

```
Test run finished after 139 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     ]
```

```
bricesoh@Brices-MacBook-Air newmath_java %
```

4. Elixir Version:

```
bricesoh@Brices-MacBook-Air newmath_ex % elixir --version
Erlang/OTP 25 [erts-13.2.2] [source] [64-bit] [smp:8:8] [ds:8:8:10] [async-threads:1] [jit] [dtrace]

Elixir 1.14.4 (compiled with Erlang/OTP 25)
bricesoh@Brices-MacBook-Air newmath_ex %
```

5. Elixir Program Execution

```
[bricesoh@Brices-MacBook-Air newmath_ex % bin/run  
Erlang/OTP 25 [erts-13.2.2] [source] [64-bit] [smp:8:8] [ds:8:8:10] [async-threa  
ds:1] [jit] [dtrace]  
  
Interactive Elixir (1.14.4) - press Ctrl+C to exit (type h() ENTER for help)  
[iex(1)> NewmathEx.div(5,2)  
{:ok, 2.5}  
[iex(2)> NewmathEx.div(6,3)  
{:ok, 2.0}  
iex(3)> █
```

6. Elixir Test Execution

```
[bricesoh@Brices-MacBook-Air newmath_ex % bin/test  
Compiling 1 file (.ex)  
Generated newmath_ex app  
...  
Finished in 0.01 seconds (0.00s async, 0.01s sync)  
1 doctest, 2 tests, 0 failures  
  
Randomized with seed 314953  
bricesoh@Brices-MacBook-Air newmath_ex % █
```