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# seg3103 playground
## Synopsis
This repository contain the code, insers and results for the
first lab of the course SEG3503 during the summer term 2021.
## Java
I am running Java openjdk 14
Instruction to see the java version :
$ java --version
Output:
D:\kaana\SEG3503\lab1\seg3103_playground\newmath_java>java --version
java 14.0.2 2020-07-14
Java(TM) SE Runtime Environment (build 14.0.2+12-46)
Java HotSpot(TM) 64-Bit Server VM (build 14.0.2+12-46, mixed mode, sharing)
Instruction to compile the code on Newmath java folder:
javac -encoding UTF-8 --source-path src -d dist src/*.java
Instruction to execute the code:
java -cp ./dist Main
Example of Output:
D:\kaana\SEG3503\lab1\seg3103_playground\newmath_java>javac -encoding UTF-8 --source-path src -d dist src/*.java
Newmath (type 'exit' to exit program)
Numerator: 10
Demoninator: 2
10 / 2 = 5
Umerator: 4
Numerator: exit
:\kaana\SEG3503\lab1\seg3103_playground\newmath_java>
## Junit
I am working with JUnit 5 (via Console standalone 1.7.1)
To run JUnit, I need to compile the application, and then compile
the test code
Instruction to compile the application :
javac -encoding UTF-8 --source-path src -d dist -cp lib/junit-
platform-console-standalone-1.7.1.jar test/*.java
Instruction to run the test:
java -jar lib/junit-platform-console-standalone-1.7.1.jar --
class-path dist --scan-class-path
Output Screenshot:
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D:\kaana\SEG3503\lab1\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
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
D:\kaana\SEG3503\lab1\seg3103_playground\newmath_java>
##Elixir
I am running Elixir 11.4 with Erlang 23
Instruction to see the version:
$ elixir --version
Output Screenshot:
C:\Users\kaana>elixir --version
Erlang/OTP 21 [erts-10.3] [64-bit] [smp:8:8] [ds:8:8:10] [async-threads:1]
Elixir 1.11.4 (compiled with Erlang/OTP 21)
Instruction to compile the program:
mix compile
Instruction to execute the program:
iex -S mix
Output screenshot:
D:\kaana\SEG3503\lab1\seg3103_playground\newmath_ex>mix compile
D:\kaana\SEG3503\lab1\seg3103_playground\newmath_ex>iex -S mix
Interactive Elixir (1.11.4) - press Ctrl+C to exit (type h() ENTER for help)
iex(1) > NewmathEx. div(10, 2) {: ok, 5.0} iex(2) > NewmathEx. div(20, 5) {: ok, 4.0} iex(3) > NewmathEx. div(4,0)
{:error, "Cannot divide by zero"}
iex(4)
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## ExUnit
Instruction to run the test:
mix test
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Output screenshot:

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D:\kaana\SEG3503\lab1\seg3103_playground\newmath_ex>mix test
Compiling 1 file (.ex)
Generated newmath_ex app
...
Finished in 0.1 seconds
1 doctest, 2 tests, 0 failures

Randomized with seed 27000
D:\kaana\SEG3503\lab1\seg3103_playground\newmath_ex>
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