CSE-210A
HOMEWORK 2 REPORT
Interpreter for the WHILE language

Submitted By:
Rashmi Chennagiri (rchennag@ucsc.edu)

Details of `arith.py`:

Language Used	Java 13.0.2, Apache Maven 3.6.3
Data structure for AST	Tree
Extra features added	Arrays
Custom test cases	tests/custom.bats

Execution of Custom + Provided Test Cases:

```
mvn install
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for cse210a:hw4:jar:1
[WARNING] 'build.plugins.plugin.version' for org.apache.maven.plugins:maven-jar-plugin is missing. @ line 26, column 12
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[WARNING]
[INFO]
[INFO] ----------------------< cse210a:hw4 >----------------------
[INFO] Building hw4 1
[INFO] --------------------------------[ jar ]--------------------------------
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ hw4 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 13 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ hw4 ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 12 source files to /Users/rashmichennagiri/Documents/2020_q3_spring/cse210a_PL/pl_homeworks/cse-210/hw4/hw4
-java/target/classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ hw4 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /Users/rashmichennagiri/Documents/2020_q3_spring/cse210a_PL/pl_homeworks/cse-210/
hw4/hw4-java/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ hw4 ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ hw4 ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ hw4 ---
[INFO] Building jar: /Users/rashmichennagiri/Documents/2020_q3_spring/cse210a_PL/pl_homeworks/cse-210/hw4/hw4-java/target/hw
4-1.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ hw4 ---
[INFO] Installing /Users/rashmichennagiri/Documents/2020_q3_spring/cse210a_PL/pl_homeworks/cse-210/hw4/hw4-java/target/hw4-1
.jar to /Users/rashmichennagiri/.m2/repository/cse210a/hw4/1/hw4-1.jar
[INFO] Installing /Users/rashmichennagiri/Documents/2020_q3_spring/cse210a_PL/pl_homeworks/cse-210/hw4/hw4-java/pom.xml to /
Users/rashmichennagiri/.m2/repository/cse210a/hw4/1/hw4-1.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  2.348 s
[INFO] Finished at: 2020-05-07T01:17:36-07:00
[INFO] ------------------------------------------------------------------------
cp target/hw4-1.jar .
 ✓ custom-1
 ✓ custom-2
 ✓ custom-3
 ✓ custom-4
 ✓ custom-5
 ✓ easy-1
 ✓ easy-2
 ✓ easy-3
```

```
✓ easy-2
✓ easy-3
✓ easy-4
✓ easy-5
✓ easy-6
✓ easy-7
✓ easy-8
✓ easy-9
✓ easy-10
✓ easy-11
✓ easy-12
✓ easy-13
✓ easy-14
✓ easy-15
✓ easy-16
✓ easy-17
✓ easy-18
✓ hard-1
✓ hard-2
✓ hard-3
✓ hard-4
✓ hard-5
✓ hard-6
✓ hard-7
✓ hard-8
✓ hard-9
✓ hard-10
✓ hard-11
✓ hard-12
✓ hard-13
✓ hard-14
✓ hard-15
✓ hard-16
✓ hard-17
✓ hard-18
✓ medium-1
✓ medium-2
✓ medium-3
✓ medium-4
✓ medium-5
✓ medium-6
✓ medium-7
✓ medium-8
✓ medium-9
✓ medium-10
✓ medium-11
✓ medium-12
✓ medium-13
✓ medium-14
✓ medium-15

56 tests, 0 failures

(base) RASHMIs-MacBook-Pro:hw4-java rashmichennagiri$ mvn --v
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: /Users/rashmichennagiri/maven-installation/apache-maven-3.6.3
Java version: 13.0.2, vendor: Oracle Corporation, runtime: /Library/Java/JavaVirtualMachines/jdk-13.0.2.jdk/Contents/Home
Default locale: en_US, platform encoding: UTF-8
OS name: "mac os x", version: "10.14.6", arch: "x86_64", family: "mac"
(base) RASHMIs-MacBook-Pro:hw4-java rashmichennagiri$
```