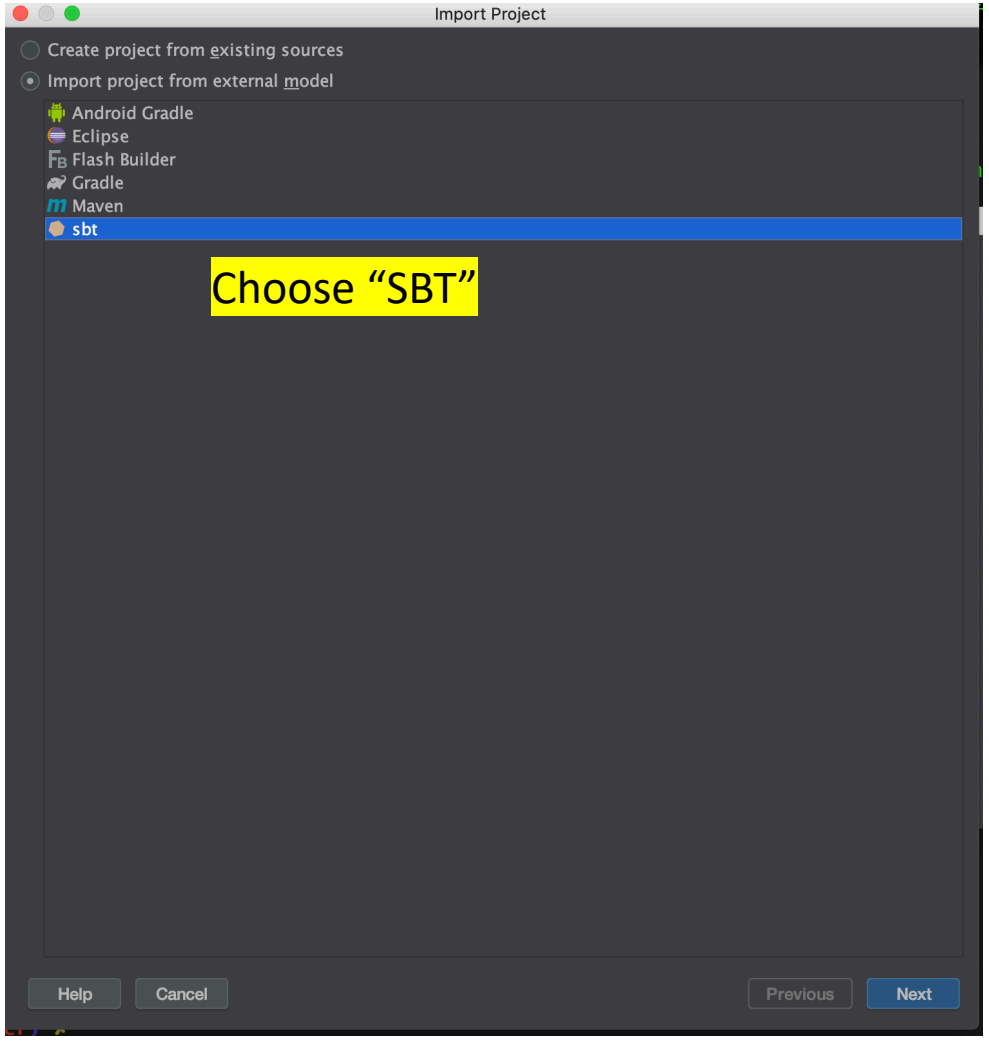
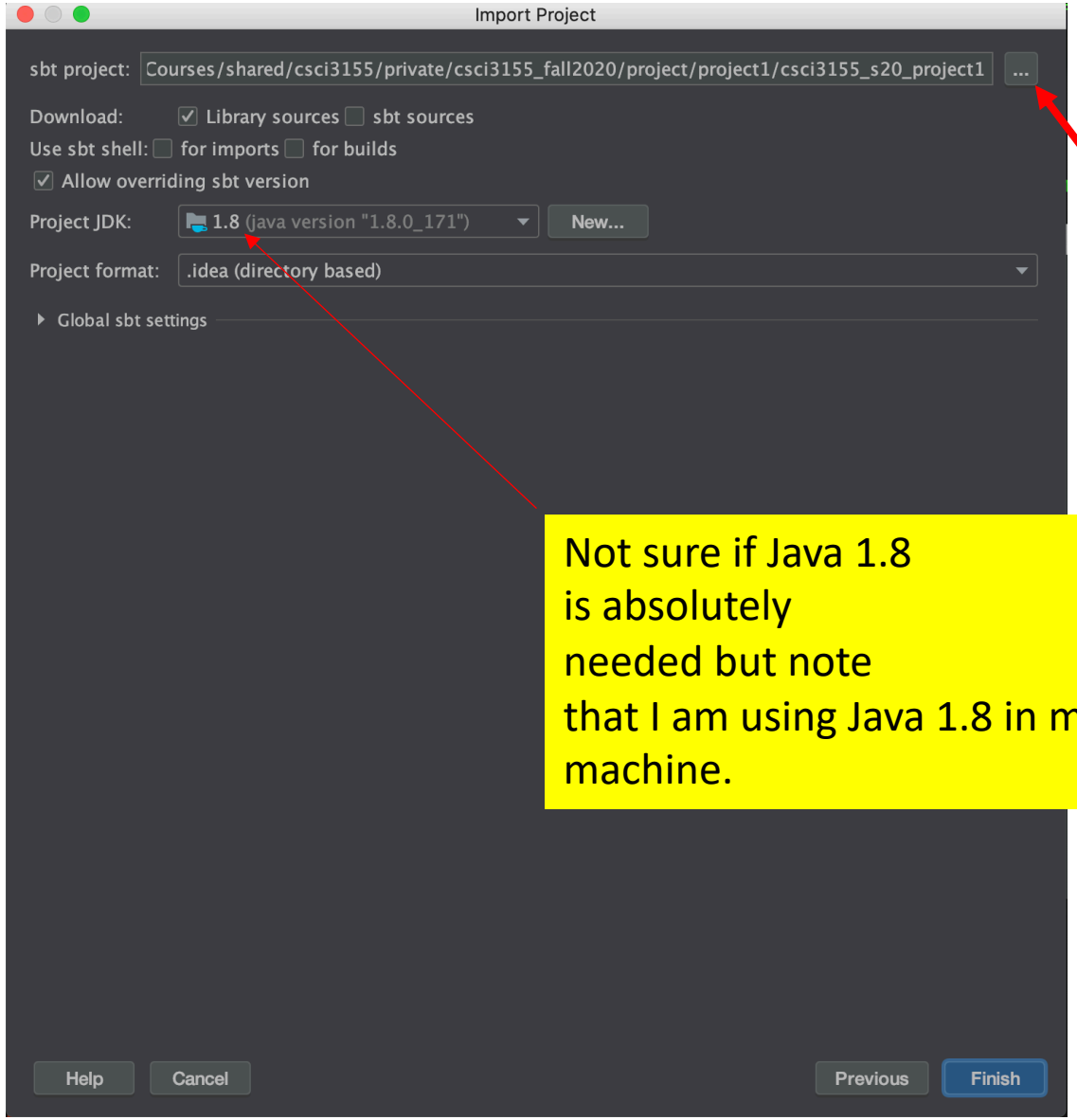
Project Setup Instructions

CSCI 3155

Steps

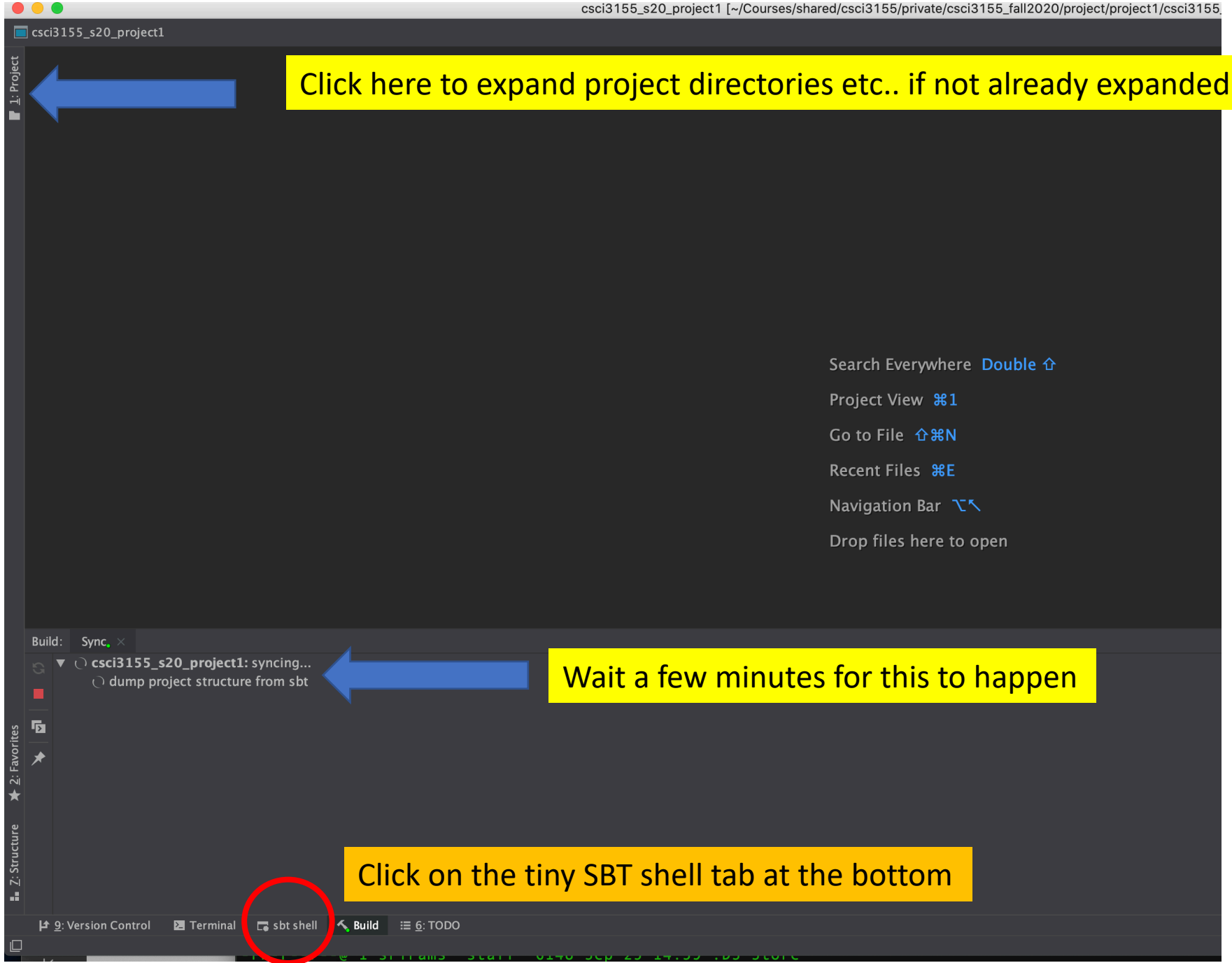
- Download and unzip the project file.
- Install IntelliJ IDEA: get the full version by signing up with your CU Boulder email for an academic license.





Press here
to navigate
to the root
directory of
the project
after unzipping it

Not sure if Java 1.8
is absolutely
needed but note
that I am using Java 1.8 in my
machine.


csci3155_s20_project1 [~/Courses/shared/csci3155/private/csci3155_fall2020/project/project1/csci3155
csci3155_s20_project1
1: Project
Click here to expand project directories etc.. if not already expanded for you
Search Everywhere Double ⇧
Project View ⌘1
Go to File ⇧⌘N
Recent Files ⌘E
Navigation Bar ⌥↖
Drop files here to open
Build: Sync
csci3155_s20_project1: syncing...
dump project structure from sbt
Wait a few minutes for this to happen
2: Favorites
7: Structure
Click on the tiny SBT shell tab at the bottom
9: Version Control
Terminal
sbt shell
Build
6: TODO

Once you are in the “SBT Shell”: there will be a prompt after some time of setup.
Type “test” on the prompt

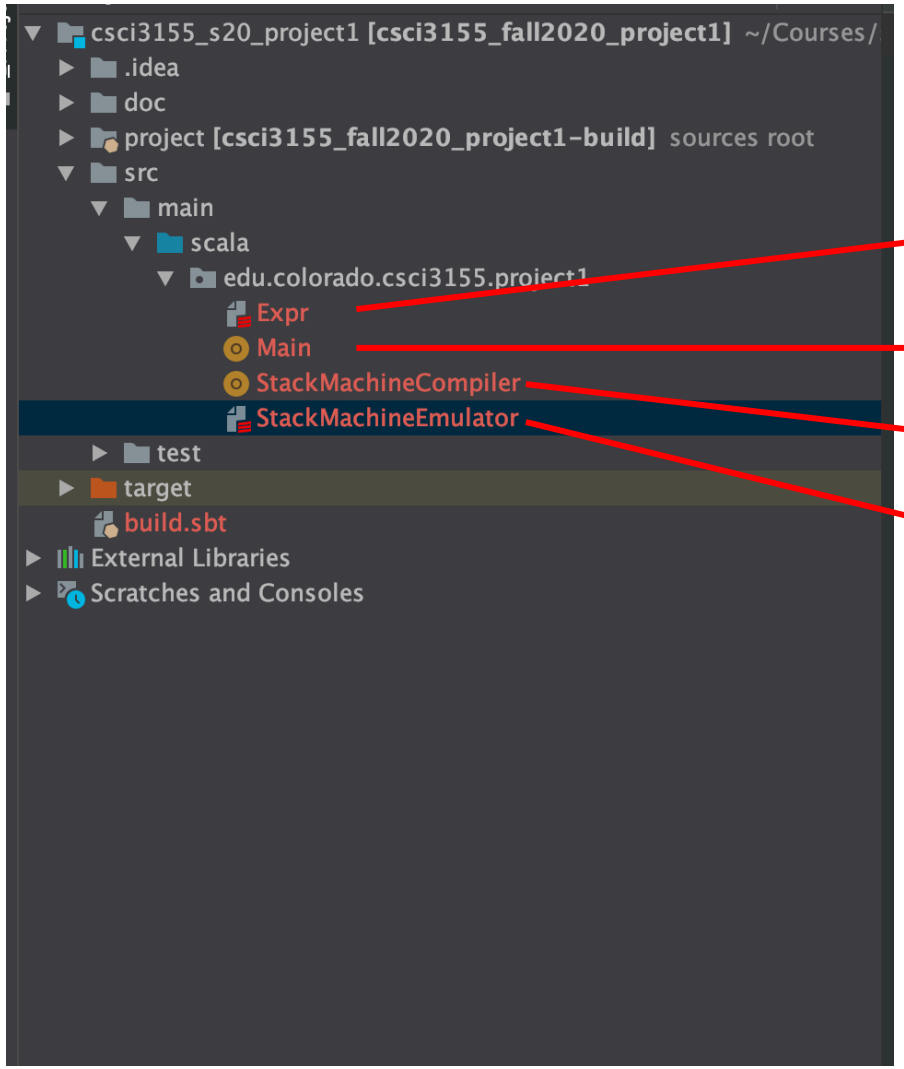
> test

```
[error]     test("stack machine test 5") {
[error]     ^
[error] 18 errors found
[error] (Test / compileIncremental) Compilation failed
[error] Total time: 12 s, completed Sep 25, 2020 9:56:38 PM
[IJ]sbt:csci3155_fall2020_project1>
```

You will see a bunch of errors and
then a message saying
18 errors found.

This is because nothing is implemented yet.

Scala Code Layout



Expr.scala Definition of Expr AST

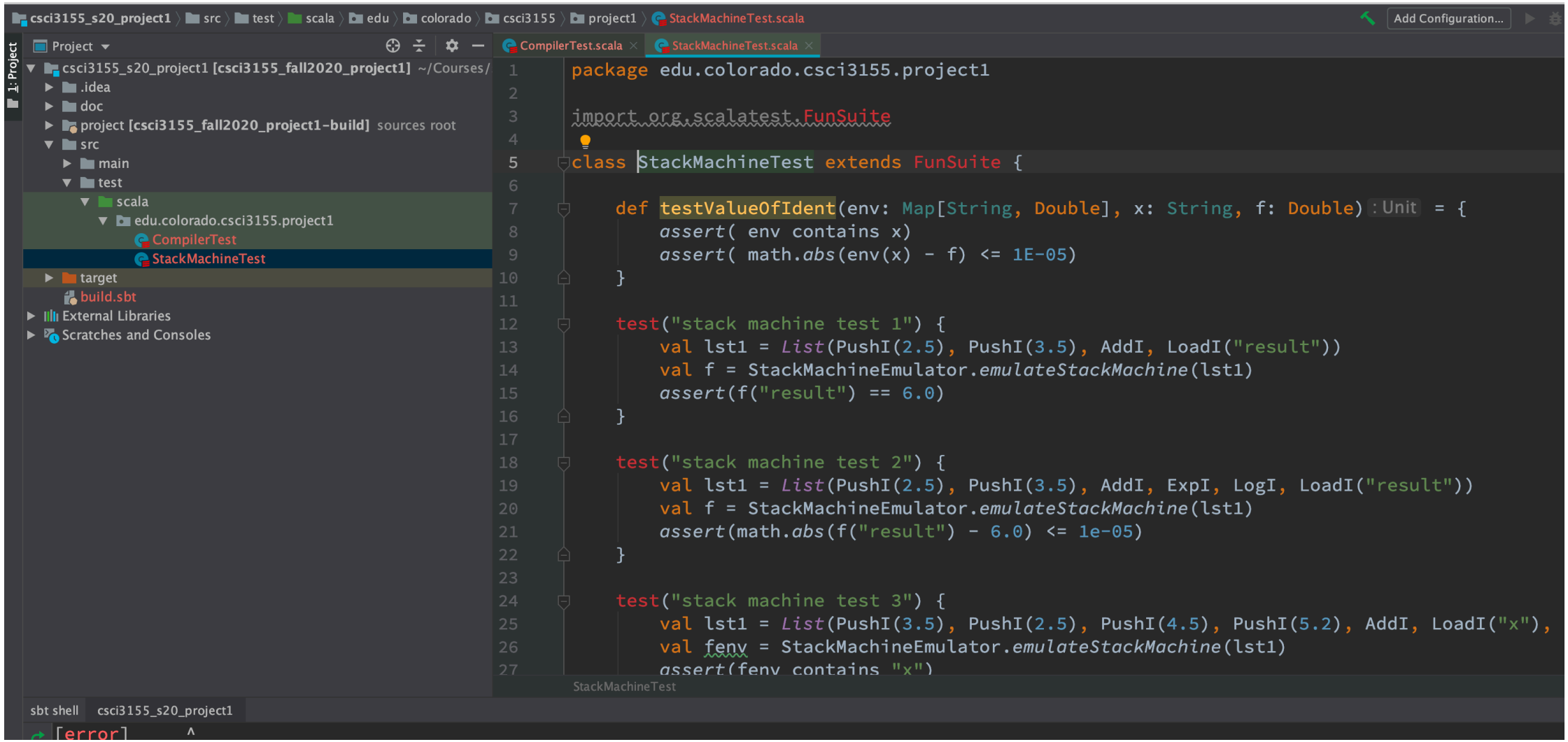
Main.scala Can be ignored for now

Part 2 of the project: Compile into Stack Machine Instr.

Part 1 of the project: Emulate Stack Machine

Test Cases Layout

See where the test cases are in the directory structure. These are the tests that sbt test runs for you.



Submission

- When you are all done – you will get all test passed message when you type “test” on SBT shell prompt.
- Type “checkAndZipSubmission” on SBT shell prompt.

```
      Main.scala
      StackMachineCompiler.scala
      StackMachineEmulator.scala
      StackMachineTest.scala
      CompilerTest.scala
   to:
      /Users/srirams/Courses/shared/csci3155/private/csci3155_fall2020/project/project1/csci3155_s20_project1/submission.zip

[success] Total time: 1 s, completed Sep 25, 2020 10:16:07 PM
[IJ]sbt:csci3155_fall2020_project1>
```

Script Creates a file called submission.zip and prints out where it has been placed. Submit this zip file.