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Big Data System Engineering with Scala

Spring 2022

Assignment No. 5



Task

- Implement 13 methods in Function.scala file
 - Implement method map2
 - Implement method map3
 - Implement method map7
 - Implement method lift
 - Implement method lift2
 - Implement method lift3
 - Implement method lift7
 - Implement method invert3
 - Implement method invert4
 - Implement method uncurried2
 - Implement method uncurried3
 - Implement method uncurried7
- Implement 2 methods in Movie.scala file
 - Implement MoveProtocol object
 - Implement method testSerializationAndDeserialization
- Make sure all test cases specified in FunctionSpec.scala passes
- Make sure all test cases specified in MovieSpec.scala passes

Solution/ Unit test (screenshot)

The screenshot shows an IDE window titled "FunctionalComposition - FunctionSpec.scala [FunctionalComposition]". The code in the editor is as follows:

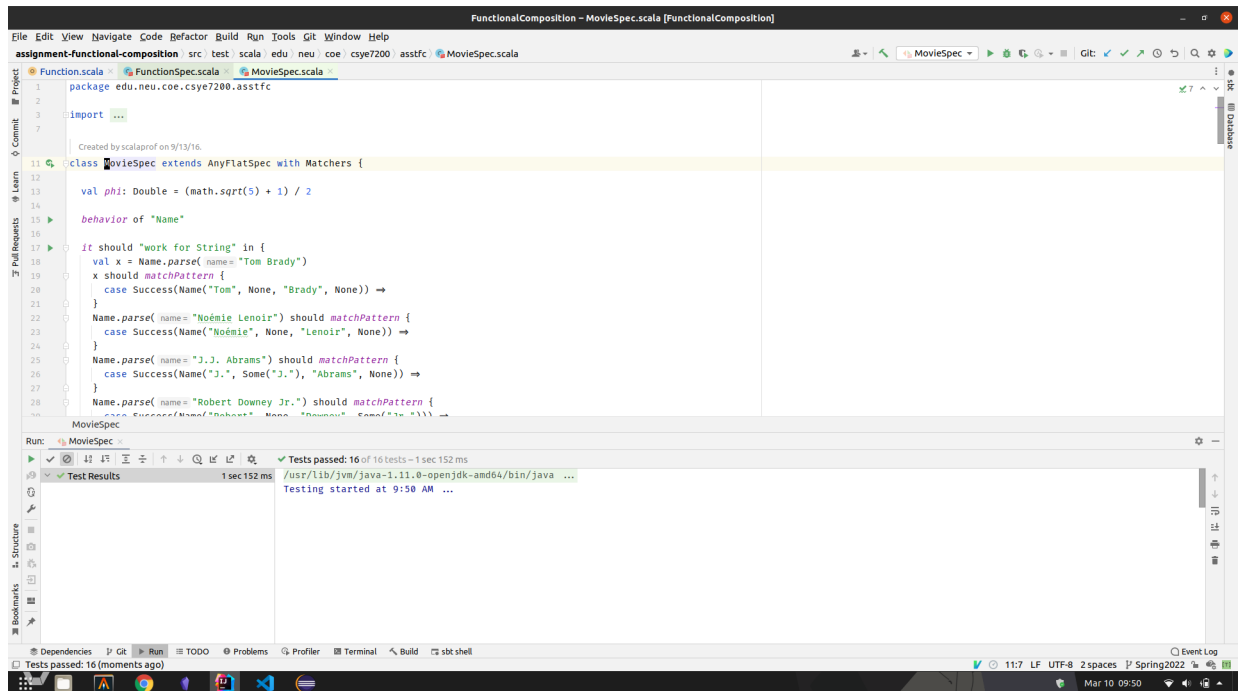
```
1 package edu.neu.coe.csye7200.asstfc
2
3 import ...
4
5 class FunctionSpec extends AnyFlatSpec with Matchers {
6   behavior of "map2"
7
8   it should "'match Success(1234) for parse '12' to int and parse '34' to int, with (a: Int, b: Int) => a.toString() + b.toString'" in {
9     val a1 = "12"
10    val a2 = "34"
11    val t1 = Try(a1.toInt)
12    val t2 = Try(a2.toInt)
13
14    val test = Function.map2(t1, t2)((a: Int, b: Int) => a.toString + b.toString)
15
16    test should matchPattern {
17      case Success("1234") =>
18    }
19
20    it should "'fail for '', Int'" in {
21      val t1 = Try(Name("Robin", Some("C"), "Hillyard", Some("Ph.D")))
22    }
23  }
24 }
```

Below the code editor, the "Run" tab is active, showing the test results for "FunctionSpec". The output indicates that all tests passed:

```
Run: FunctionSpec
Tests passed: 8 of 8 tests - 92 ms
Test Results
92 ms
Testing started at 9:50 AM ...
```

The IDE interface includes a sidebar on the left with "Project", "Learn", "Pull Requests", "Bookmarks", and "Structure" views. The bottom status bar shows "Tests passed: 8 (moments ago)", "7:7 LF UTF-8 2 spaces", "Spring2022", and the date "Mar 10 09:50".

FunctionSpec



MovieSpec

Project Source (Github link to specific module relate to assignment)

https://github.com/Freakqncy/CSYE7200_Assignment5.git