Scala Programming

Introduction

Introduction to Exercises

For every exercise there should be a scala exercise file available, most questions are solved by writing code in the file  
and then running the file.

Solutions are provided, you can have a look at these if you get stuck, however its best to try on your own and ask the instructor for advice.

Before you start an exercise, save a copy to your home folder to keep track of your solutions.

Overview

Scala programs can be written in several styles and executed in several ways. Programs can be compiled, interpreted whole, or interpreted line-by-line at the REPL prompt.

In this exercise you will try out all of these.

Objective

Use the compiler, interpreter and repl to run scala code.

Questions

// PART 1 -- RUNNING SCALA  
// create a file called HelloWorld.scala  
// it should contain the following...  
**object** HelloWorld **extends** App {  
 **def** main(args: Array[String]) {  
 println(**"Hello World!"**)  
 }  
}  
  
//Q. run the file via: scala, scalac & scala, ide  
  
//STEPS for IDE:  
// place a main.scala file in the src folder and chose Run > Run  
  
//Q. modify your main method, define a variable called message  
// set message to "Good Day!"  
// print the message  
  
// Q. create a new \*worksheet\* in the IDE (hello.sc)  
// copy and paste the contents of HelloWorld.scala into hello.sc  
// in addition, add at the end of the file: HelloWorld.main(Array())  
// and run the file (the green triangle)  
  
//Q. why was the last line required?  
  
// PART 2 -- TRY THE REPL  
//Q. use the REPL to find out what methods today has  
//HINT: TAB  
**val** today = **new** java.util.Date  
  
//Q. try the following in the REPL  
**val** message = **"Hello"  
var** greeting = **"Hello"**greeting += **" World"**message += **" World"**//Q. Why does the second operation fail?  
//Q. change the definition of message so the above operation will work  
  
// EXTRA  
// To turn off automatic running of worksheets in Intellij choose:  
// Preferences > Language & Tools > Scala > Worksheets > interactive option  
  
// REPL -- Mac, Linux users only!  
//Q. what does CTRL+L, CTRL+A, CTRL+E, CTRL+U and CTRL+K do?  
//Q. press CTRL+R, type val, press the right arrow key  
  
// REVIEW: What did you learn from this exercise?