

Expeditors Backend Academy Labs

Introduction

This document contains the labs for the Expeditors Backend Academy.

The instructions are split up into **Classwork** and **Homework**. The Classwork we will do in class together. You should do the Homework in the **Homework** module. Create a new package for each week's homework if it makes sense. I will go through an example before we start.

Week 1

Classwork

1. Introductions.
2. Import the github workspace into your IDE. We will do this together in class.
3. Write a simple "Hello World" program to make sure that everything works.
4. Become familiar with basic Java.
5. Intro to JUnit.

Homework

Objectives

1. Become familiar with basic Java things like variable types, loops etc.
2. Start using JUnit

Tasks

1. Write a program to create and print out the values of variables to hold the following data. The point here is to think about the **types** of variables needed to hold particular types of data.
 - a. A vehicle identification number in the range 0 to 1000000
 - b. A vehicle make /model (i.e. Ford Explorer)
 - c. a vehicle color
 - d. whether the vehicle has a towing package
 - e. an odometer reading
 - f. a price
 - g. a quality rating (A, B, or C)

2. Write a program that goes in a loop from -500 to +500 and prints out all numbers that are divisible by either 3 or 7. Do this with a for loop and a while loop.
3. Change your program to print out a **count** of the numbers between -500 to +500 that are divisible by either 3 or 7.
4. Once you have the count, rewrite your program as a JUnit test and assert that it returns the correct count.