IPOD - TP

TP2 initial code

This is a template for the students' assignments.

Course material: 📱📱💻 http://bit.ly/jmb-cpoa

Assignment info

LAST NAME
BRUEL

First Name
Jean-Michel

Group #

- [x] Teachers
- [ ] 1
- [ ] 2
- [ ] 3
- [ ] 4
- [ ] Innopolis

Requirements

You'll need:

- [x] A GitHub account
- [ ] A Git Bash terminal (if you use Window$)

Try the following command in your terminal to check your `git` environment:

```
git config --global -l
```

Initial tasks

- [x] Click on the Github Classroom link provided by your teacher (in fact, this should be done if you read this).
- [ ] Clone on your machine the Github project generated by Github Classroom.

- [ ] Modify the README file to add your last name, first name and group number.
- [ ] Commit and push using the following message:

commit/push

```
fix #0 Initial task done
```

In the following, every time you'll see à `fix #…` text, make sure all your files are committed, and then push your modifications in the distant repo, making sure you used the corresponding message (`fix #…`) in one of the `commit` messages.

- If you want to check that you're really ready for `fix #0`, you can run the command in your shell: `make check`.
- If you want to list the ToDos of the day, run `make todos`.

This TD exercise is inspired from the excellent book: "Head First: Design Pattern. Bert Bates, Eric Freeman, Elisabeth Freeman, Kathy Sierra. Editions O'Reilly. 2005."

O'REILLY
Head First
Design Patterns
A Brain-Friendly Guide
10th Anniversary Updated for Java 8
Eric Freeman & Elisabeth Robson
with Kathy Sierra & Bert Bates

1. Cucumber tests

The focus of this week is to master Cucumber tests.

1.1. Get back to TD2 codes

TODO*:*

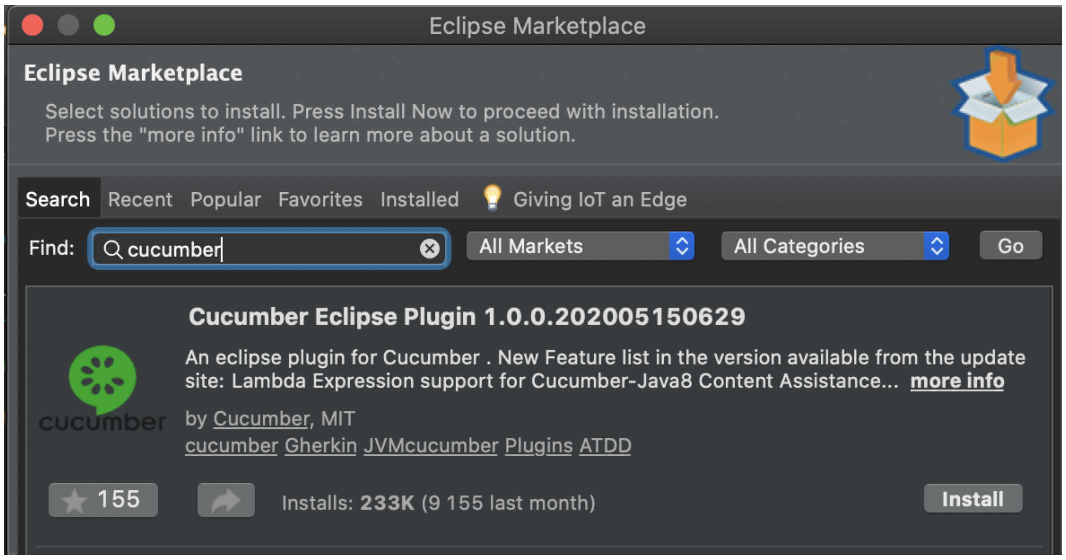
- ▢ Import your working java codes from TD2 on the Chocolate Factory
- ▢ Make sure all the previous tests run and that your environment is ready for more.

commit/push

```
fix #1.1 I am ready!
```

1.2. Cucumber tutorial

- If not already done, install the useful plugins: `infinitest` and `Cucumber`



Eclipse Marketplace

Eclipse Marketplace

Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.

Search | Recent | Popular | Favorites | Installed | Giving IoT an Edge

Find: cucumber | All Markets | All Categories | Go

Cucumber Eclipse Plugin 1.0.0.202005150629

An eclipse plugin for Cucumber . New Feature list in the version available from the update site: Lambda Expression support for Cucumber-Java8 Content Assistance... **more info**

by Cucumber, MIT

cucumber Gherkin JVMcucumber Plugins ATDD

155 | Installs: **233K** (9 155 last month) | **Install**

Figure 1. Example for Cucumber on eclipse

TODO*:*

- ☐ Follow this tutorial and apply it to your running code: https://cucumber.io/docs/guides/10-minute-tutorial/. You should get at the end:
- ☐ A `pom.xml` or a `build.gradle` to run the tests
- ☐ Have a *feature* file in `src/test/resources`, for example:

Safety.feature example of a Cucumber feature

```
#Author: JMB
Feature: Safe Chocolate Factory

  As a controller, I want to garanty that I am the only one
controlling my physical Boiler so that the Boiler cannot get
contradictory orders.

  Scenario: Trying to create 2 controllers
  Given a controller A and a controller B
  When  A is ordered to fill and boil
  Then  B cannot boil
```

- ☐ Have a test launcher on your `src/test/java` :

```
import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(plugin = {"pretty"})
public class RunCucumberTest {

}
```

- ☐ Have some tests *steps* implementations (java methods) (in `src/test/java`)
- ☐ And when this is over and working:

commit/push

```
fix #1.2 Cucumber is working!
```

Appendix A: Still hungry?…

QUESTION

1. Try to add more scenarios or features, play with generic scenarios and examples.
2. If you have used `mvn`, try `gradle` and vice-versa.
3. Test Cucumber on one of your small Python code (invent one if needed)

commit/push

```
fix #Bonus: Here is additional material...
```

Contributors

- Jean-Michel Bruel
- Louis Chanouha

About...