

**Thesis: Mining Developers' Workflows from IDE Usage**

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# 1 Manual

The purpose of this short experiment is to gather data with regards to Developers' workflow in the IDE of Eclipse in order to be able to generate process mining. Therefore, please follow the task carefully and develop the required units.

## 2 Step 1 - Installation

- Download the project provided at: <https://github.com/CIoann/rabbit-eclipse.git>
- Create a new workspace and import the project into Eclipse IDE

## 3 Step 2 - Initialization

Before beginning the task you will need to run the environment to do that see figure (1)

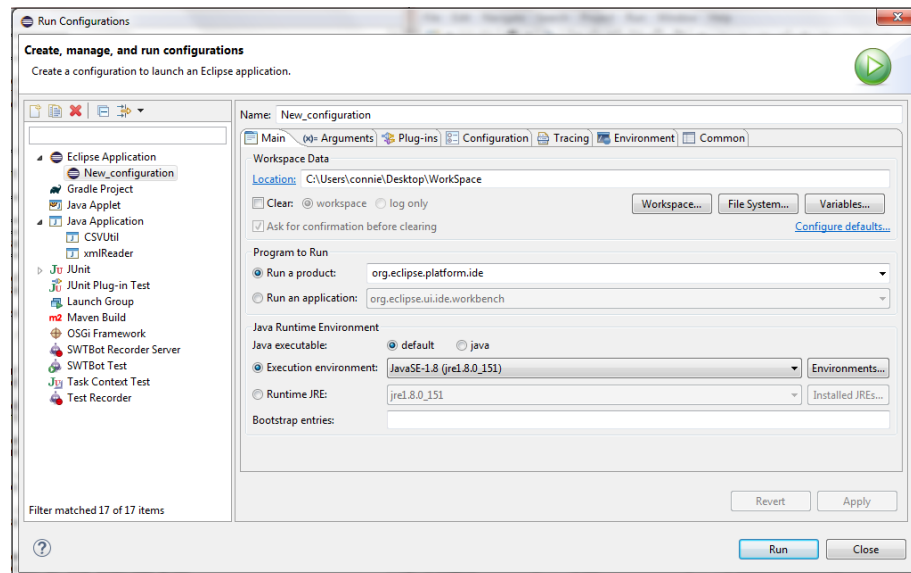


Figure 1: Run Configuration.

Further you need to establish the plugin Rabbit, in order to do that you need to follow the steps presented below in figure 2 Select Window > Show View > Other > and then find Rabbit

At this point you are ready to continue.

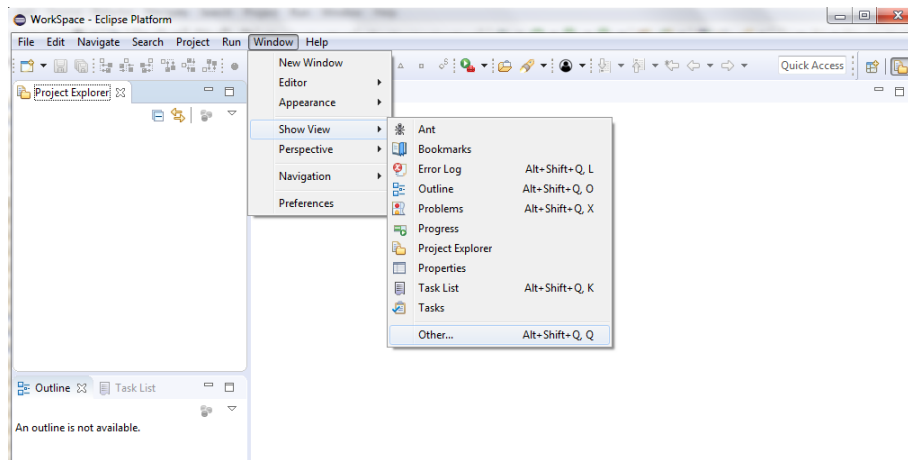


Figure 2: Initialise Rabbit

## 4 Step 3 - Your task

The task is fairly simple, the purpose is the implementation of inheritance hierarchy of classes derive from an abstract superclass. Once you begin you should not stop your **nam-ing of methods and classes is important** therefore is expected that you follow the provided notations (see Figure: 3).

DessertShop class is given to you and contains the main functions of the shop and the test for your classes. Further your task is to implement:

- DessertItem abstract superclass
- Candy, Cookie, IceCream classes which derive from DessertItem class
- Sundae class which derives from IceCream class

**The Candy class** should be derived from the DessertItem class. A Candy item has a weight and a price per pound which are used to determine its cost. For example, 2.30 lbs.of fudge @ .89 /lb. = 205 cents. The cost should be rounded to the nearest cent.

**The Cookie class** should be derived from the DessertItem class. A Cookie item has a number and a price per dozen which are used to determine its cost. For example, 4 cookies @ 399 cents /dz. = 133 cents. The cost should be rounded to the nearest cent.

**The IceCream class** should be derived from the DessertItem class. An IceCream item simply has a cost.

**The Sundae class** should be derived from the IceCream class. The cost of a Sundae is the cost of the IceCream plus the cost of the topping.

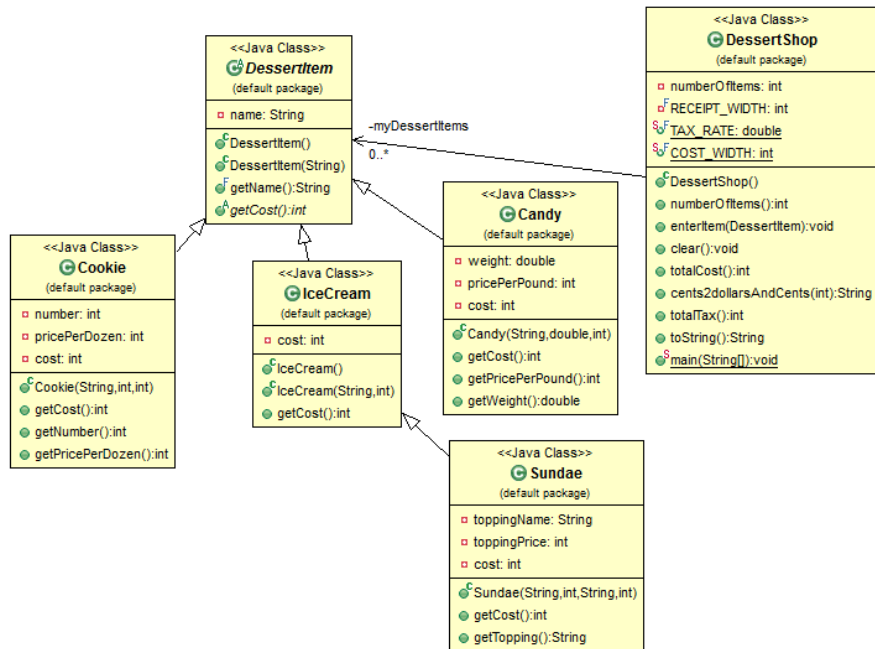


Figure 3: Class Hierarchy.

## 5 Step 4 - Data Extractions

The Plugin has now recorded your activity. The documents created can be found in Rabbit folders.

For both mac and windows users the data files will be found in /Users/<UserName>/Rabbit/<WorkSpace>. Mac users might not be able to see these documents because they are considered as hidden files, therefore you'll need to enable hidden files.

Please zip all the files created and send them to s150954@student.dtu.dk