SWEN30006 Software Modelling and Design
Semester 1 2021

Assignment 1 feedback for **Mahee Hossain (1080102)**

Criterion	Available marks	Your mark
Build		
Build Success	TRUE	**TRUE**
Behaviour Preservation (auto)		
Auto Check #1	TRUE	**TRUE**
Auto Check #2	TRUE	**TRUE**
New Behaviour (auto)		
Charge Display	TRUE	**TRUE**
Fee Charged	TRUE	**TRUE**
Overall mark for Assignment 1	12	**8.5**

Personal feedback

* Appropriate Design: The report is well written with good justifications using GRASP patterns.

I liked that you created a new implementation of the IMailDelivery class for deliveries with charges.

Creating a new pool for priority items is a good way of modifying the MailPool class to accommodate the new changes among several other possible good solutions.

I liked that you created a StatisticTracker class with static methods and fields to track statistics.

You should create a new class for computing the cost of a mail item instead of doing the charge and cost computations inside the Robot and MailItem class which reduces the cohesion of this class. Moreover, the way cost is computed in the class is just one way of charging customers. In the future, DS may want to add new ways of computing this cost in addition to the current one. Hence, it would even be better to create an interface for computing costs and create an implementation of this interface for the current way of computing cost.

In order to limit the impact of potential changes in the API of the modem used for lookup service in the program (protected variation), the calls to the modem API should be placed inside a separate class (indirection & pure fabrication patterns) which implements an interface that is used in the rest of the program.

* Implementation: Your code passes all the tests. Very Good!

The formula for computing the charge in the MailItem class is duplicated in multiple places. You should create a method for it.

As a side note, please do not modify the original source code by breaking its lines into shorter lines.