Intro:

Things to do research on:

sequence processing (streams/Rx)

Stream Class/ stream().filter

<https://winterbe.com/posts/2014/07/31/java8-stream-tutorial-examples/>

concurrency, dependency injection

Section2 SOLID Design principles:

1. Single Responsibility Principle (SRP)

Keep the class as simple as possible. E.g. a class to store properties, method related to the properties. A separate class to manipulate the previous class like CRUD behaviors.

1. Open-Closed Principle(OCP) + Sepcification

Want the code open to extension but close to modification after it is being tested/delivered

Sepcification Pattern

Interface Sepcification<T>{ Boolean isSatisfied(T item);}

Interface Filter<T>{ Stream<T> filter(List<T> items, Specification<T> spec);}

ColorSpecification extends Sepcification

A general filter which extends Filter interface to filter a particular class.

To satisfy to condition, we make a new class AddSpecification<T> implements Specification<T>