Assignment 3

- In each of the following cases, a number of patterns have been associated with a specific situation. For each of the situations, compare the associated patterns as to <u>when (in what circumstances)</u> and <u>how (in what way)</u> each pattern can be useful in resolving the situation, and highlight the <u>negative consequences</u> of applying each pattern to its associated situation.

  - **Situation:** It has become difficult to make changes to inheritance hierarchies due to the propagation of change.
    Patterns: 1) Tease Apart Inheritance; 2) Form Template Method.

  - **Situation:** Switch statements are repeated in the methods of classes.
    Patterns: 1) Replace Conditional with Polymorphism; 2) Factor Out Strategy.

  - **Situation:** Some of the classes are Data Classes.
    Patterns: 1) Split Up God Class; 2) Eliminate Navigation Code.