SENG 301 - Software Analysis and Design

Lab 15- Refactoring May Mahmoud



Refactoring

 The process of restructuring existing computer code without changing its external behavior

Kind of reorganization/not rewriting code

Example

- Rename
- Splitting long functions into smaller ones
- Removing duplicated functions

Refactoring

 Run unit test before and then refactor and run unit test again to make sure code didn't break

- Some refactoring techniques
 - Pull Up in OOP, move to a superclass
 - Push Down in OOP, move to a subclass
 - Encapsulate Field force code to access the field with getter and setter methods
 - Generalize Type create more general types to allow for more code sharing
- Many software editors and IDEs have automated refactoring support

START LAB 15