Class Notes 4/28/16

T.D.D

* Test Driven Development

UML Diagrams

* Required to understand for quiz
* Syntax)

|  |
| --- |
| Class Name |
| Member variables  .  .  . |
| Member functions (methods)  .  .  . |

* Private (-)
* Public (+)
* Protected (#)
* Data type (:)
* Static (underlined)
* Ex)

|  |
| --- |
| Fraction |
| - denominator : int  -numberator : int |
| Fraction()  Fraction(int,int)  Fraction(Fraction)  +getDenominator() : int  + add(Fraction, Fraction) : Fraction  .  .  . |

Unit Testing

* Creates code to test the class
* Creates a .test file
* Assert class has methods that assert if a test has passed/fail
  + fail method
    - If this method is called, the program automatically fails
* @ annotation
  + Allows the program to know what the test will run for the method
  + @Test
    - Tests the case for method

Creating a Unit Testing File

1. Located under <Right-click program/new/other/Unit Tests/Test for Existing Class> then insert the filename for the class
2. Delete the fail methods if everything is correct
3. Modify test files as needed for testing
   * Input expected results and values to test method
4. Run to test
5. View results and repeat as needed.