Assignment 3: Shapes and Online Superhero Tracker (20% of course total) Marking Guide

This assignment must be done individually. This guide is for reference only and might be changed.

Total = [40] marks. Use the formula Quiz_completed?(Quiz_mark+Program_mark):(0.5*Program_mark).

Quiz_mark

[5] Quiz: Online quiz.

Program_mark has three parts [20]+[15]+[5]

0 on Program_mark if cannot compile (communicate this to the student on comments).

[20] Shapes

- [1] Correct package hierarchy
    - All student created class files (Shape.java, ShapeImp.java, Rhombus.java, Rectangle.java, TextBox.java) must be in the package called ca.cmpt213.a3.shapes
- [1] Shape must be defined as an interface
- [3] ShapeImp must be defined as an abstract class and has member variables/methods (can have other helper functions as long as they make sense):
    - Private variables storing location (X & Y coordinates), width & height
    - Private variables storing border character with default set, colour with default set
    - Draw method implemented
- [3] Rhombus class works correctly (1 mark each)
    - X & Y coordinates used correctly, size variable used correctly
    - Border character used correct (if not set uses *)
    - Colour variable used correctly (if not set uses blue)
- [3] Rectangle class works correctly (1 mark each)
    - X & Y coordinates used correctly, size variable used correctly
    - Border character used correct (if not set uses *)
    - Colour variable used correctly (if not set uses blue)
- [9] TextBox class works correctly (1 mark for first 3)
    - X & Y coordinates used correctly, size variable used correctly
    - Border character used correct (if not set uses *)
    - Colour variable used correctly (if not set uses blue)
    - [2] Text is centered, starts from top, only stays inside the rectangle
    - [2] Long message split correctly
    - [2] Trailing and leading space handled correctly

[15] Online Superhero Tracker

- [1] Correct package hierarchy
    - Package ca.cmpt213.a3.onlinesuperherotracker contains Application.java
    - Package ca.cmpt213.onlinesuperherotracker.controllers contains MakeSpringPrettyPrintJSON.java, SuperheroController.java, and exception classes

- o Package ca.cmpt213.onlinesuperherotracker.model contains Superhero.java
- [13] Able to handle HTTP requests correctly, including:
    - o [1] hello: returns the string "Hello welcome to Superhero Tracker Online!" or something that makes sense.
    - o [2] listAll: as stated in the description
    - o [3] add: as stated in the description
        - [2] correctly add an entry, must generate a non-repeated increasing id
        - [1] handle non-negative values of height and civilian saved as stated
    - o [3] remove/id: as stated in the description
        - [2] correctly remove an entry
        - [1] Handle non-existing id as stated
    - o [4] update/id: as stated in the description
        - [2] correctly update an entry
        - [1] Handle non-negative values of height and civilian saved as stated. This is checked before non-existing id
        - [1] Handle non-existing id as stated
- [1] Returned JSON objects printed in pretty format

[5] Code Quality and Style Guide

- Reasonable object-oriented structure
    - o must separate packages for UI and game logic.
- Very minor violations of style guide have no penalty
    - o (e.g., having "int myCount=0;" (spacing wrong) once)
- Lose a few marks for consistent problems
    - o (like always getting the spacing wrong).
- Larger penalties possible for horrific code (0 on Program_mark)

Some specifics to check with suggested deductions (to Program_mark)

- -3 Poor/missing JavaDoc comment on a class (not needed on methods and fields)
- -5 Incorrect indentation, brackets, or spacing (use IDE's reformat if needed).
- -5 Poor intention revealing class, method/variable names.
    - o (e.g., making everything public or static, undecipherable names)
- -3 Bad display of information

Forward to instructor if...

- Material is suspiciously similar to another submission or code posted online.