CS 170 ch.5 Lab 1

# Task 1

Question: Write a class called Testing that contains 3 methods, a main, square1, and square2. One of the square methods is void and the other returns an int. The square methods calculate the square of a given number.

Invoke the methods from the main method.

**test case 1:**

Input an integer: 7

The result is 49

Input an integer: 4

The result is 16

**Note:** the square of 7 should be calculated with square1 and the square of 4 should be calculated with square2

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# Task 2

Question:

**Part One**

Write a class that mimics your lunchBox from school called LunchBox.

This class contains four void methods:

main method:

In the main method, you can invoke all your methods.  At the end of your main method print out the message " I hope you enjoyed your lunch, I wonder what's for dinner?"

fruit(): In this method print the message "I'm so sweet"

veggie(): In this method print the message "I'm so crunchy"

chips(): In this method print the message "I'm so savory"

**Sample Run:**

I'm so sweet

I'm so crunchy

I'm so savory

I hope you enjoyed your lunch, I wonder what's for dinner?"

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**Part Two**

Change your code so that only the fruit method is invoked from the main method. The veggie method is invoked inside the fruit method. The chips method is invoked from inside the veggie method.

**What do you notice about the printed statements in comparison to part A?**Include snapshots of your code and execution.

**Answer this question in your word doc and explain why.**

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| The print statements in both of these examples are identical. This is because nesting the methods in this case doesn’t change the logic, which you can see by tracing where the code jumps to when each method is called. |