Assignment 0
Object Oriented Programming and Data Types
Due: Monday Sept 28th at 12 am
(10 pts)

This assignment is to familiarize you with basic concepts of object-oriented programming (OOP) which we will employ and exploit throughout this term.

- The first article is from: https://www.freecodecamp.org/news/object-oriented-programming-concepts-21bb035f7260/ It describes the tenets of OOP in a very simple language; though, very accurate. I think you will enjoy it, and we will talk about these basic concepts in the class.
- The 2nd article (https://www.softwaretestinghelp.com/data-types-in-cpp/) describes basic C++ data types. You are already familiar with these data types and it is a review for all. We will discuss some of these data types in the class, too.
- Watch the following videos: https://www.youtube.com/watch?v=KlPC3O1DVcg&ab_channel=BigThink https://www.youtube.com/watch?v=tbNe-3FXqFM&ab_channel=DevAroundTheSun

Q1: What are the basic C++ data types? What is so important about "data types"?

Q2: What are the differences between OOP and procedural programing?

Q3: Draw inheritance hierarchy for the evolution of a star (real star like our Sun, not Hollywood). Mention one similarity and one difference for each stage.