Pages 263-92 and Page 113 ***Java Programming A Comprehensive Introduction***

**Section 1: Define / Answer**

Inheritance- Inheritance is a mechanism wherein a new class is derived from an existing class. In [Java](http://www.techopedia.com/definition/3226/inheritance-java), classes may inherit or acquire the properties and methods of other classes.

A [class](http://www.techopedia.com/definition/3226/inheritance-java) derived from another class is called a subclass, whereas the class from which a subclass is derived is called a superclass. A subclass can have only one superclass, whereas a superclass may have one or more subclasses.

superclass- A superclass is a class that has been extended by another class. It allows the extending class to inherit its state and behaviors.

subclass-  class that is derived from another class is called a *subclass* (also a*derived class*, *extended class*, or *child class)*

extends- Extends mean that the class is an extention of another class and inherits all of it's attributes, properties, and methods.

Task 1:

**USE OBJECT ORIENTATED PROGRAM DESIGN TO SOLVE PROBLEM**

Update Assignment #6, Task 1.

Create a Parent SuperClass Student. Containing First Name, Last Name, DOB.

Create a subclass containing Street Address, and Zip Code

Create a subclass containing Student ID number, Major

The program should execute in way that student objects are created. Then create a menu where the user can print various portions of information about a given student.

Override the method for printing in each class to display the required print information.

Attach Snipping Photos Below

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\* Main Menu: \***

**\* Enter # to run program or Quit \***

**\* 1) Print Student Name \***

**\* 2) Print Student Address \***

**\* 3) Print all Student info \***

**\* 4) Quit \***

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