**CS 131 Exercises**

**C#—A Beginner’s Guide**

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**CS 131 Exercises - Chapter 9 : Inheritance**

**Exercise 1.** In a new console project, create a new class called Account and two classes that derive from Account named Checking and Saving.

* Use the code in Example 9-1: Inheritance Introduction as examples for the base class member details and the members defined in the child classes.
* In Main, create objects of the class types and call the class object members to test the class functionality.
* Extend your program to add a new class definition JointSavings that inherits from Savings.
* Add code to the Main() method to declare a JointSavings object and use it in a way that generates output as illustrated in the example.
* Use the code in 9-1: Inheritance Exercise as a guide to create the new class.

**Exercise 2.** In a new console project, create a Fashion class that is derived from a Department class.

* Use an abstract declaration for the Department class, that enables the declaration of an abstract property DepartmentName and an abstract method AssignPromotions().
* The Fashion class should then provide the required implementations of DepartmentName and AssignPromotions().
* Use Example 9-4: Abstract Inheritance for implementation details.
* Test the program and verify output from the program is generated from the implementation of the DisplayPromotions() method of the abstract Department class.