**Chapter 06. OO Modeling Exercise - The Stock Class**

Design a class named Stock to represent a company’s stock that contains:

* A private string data field named symbol for the stock’s symbol.
* A private string data field named name for the stock’s name.
* A private float data field named previousClosingPrice that stores the stock price for the previous day.
* A private float data field named currentPrice that stores the stock price for the current time.
* A constructor that creates a stock with the specified symbol, name, previous price, and current price. (Note: a constructor function has a name \_\_init\_\_()
* A get method for returning the stock name.
* A get method for returning the stock symbol.
* Get and set methods for getting/setting the stock’s previous price.
* Get and set methods for getting/setting the stock’s current price.
* A method named getChangePercent() that returns the percentage changed from previousClosingPrice to currentPrice.

Draw the UML diagram for the class, and then implement the class. Write a test program that creates a Stock object with the stock symbol “INTC”, the name “Intel Corporation”, the previous closing price of 20.5, and the new current price of 20.35, and display the price-change percentage.