Assignment 1, Points: 100

Overview

You have **two** (2) parts to the first assignment: online Discussion Board participation and your solution to the textbook assignment. Follow each carefully because they are a composite of this week's grade. Next week we may be dedicating the entire 100-points to programming; but this week we get acquainted with Blackboard, C-Sharp and Microsoft Visual Studio. Again, follow instructions most carefully; and most of all, be on time with each segment of the assignment.

Assignment 1, Part 1 of 2 (Points: 25 of 100)

In **Lessons | Week 1 | Discussion Board**, log onto Blackboard's **Discussion Board**. More detailed instructions are waiting for you there.

> This is a very short self-introduction to your colleagues, nothing too personal or extensive. If nothing else, you will realize you are not alone in this C-Sharp 2 challenge. I will grade this part manually in the online grade book.

Assignment 1, Part 2 of 2 (Points: 75 of 100)
Set Up
Complete this Part 2.1 before going on to Part 2.2.

2.1
Software Acquisition

 3. Do **not** download, install or use the Visual Studio 2017.
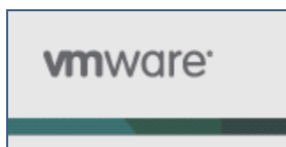Several reasons:

a.   We are going to need you to download and install the Enterprise or Community Edition of Visual Studio 2015, which is available free from the College.

b.   The Express version does not provide a solution start file (.sln file), which means I have to hunt down your primary class and recompile to a solution (.sln) file, and that will cost you 8-points each time that happens, _**and**_ I will require you to resubmit your work correctly using the Enterprise or Community editions. You are here to learn how to do things correctly.

c.   You have available to you for *free* the full, professional version of Visual Studio 2015 from our MSDNAA\MS Imagine. Reminder, no Visual Studio 2017.

Go to ->   https://mccadc.mccinfo.net/msdnaa/SitePages/Home.aspx If inaccessible via the PDF file, copy the link into your browser and access. This link is verified working as of September, 2017.

Once there … Select MS Imagine.

msdn academic alliance

vmware·

CISCO

Links

	Type	Edit	URL	Notes
			MS Imagine formerly DreamSpark Software (Free)-	Click on this link and then select login using MCCNET\Username (using your username for ANGEL and MyWay and the same password.)

In MS Imagine, select **Developer Tools** and then Visual Studio Community 2015. 32-bit or 64-bit is up to your system; sometimes 32-bit runs better on 64bit systems. You will download the software (I neither assist nor advise), and then transfer\copy the download to a DVD. Not a CD because they do not have the capacity. You want a DVD to "burn". You will be reminded of this in the download screens and instructions.

Visual Studio Community
2015

— Visual Studio Community 2015 with Update 2

Visual Studio Community 2015 with Update 2 is a free, fully featured, and extensible IDE for individual developers, open source projects, academic research, education, and small professional teams. Create applications for Windows, Android, and iOS as well as web applications and cloud services. Build apps for any platform. Use designers, editors, debuggers, and profilers in a single tool. Access thousands of extensions and more.

Visual Studio Community is not a trial version nor an Express-style narrowly limited product. It includes the same features as Visual Studio Professional except for the CodeLens feature. Community is the ideal Integrated Development Environment for students, and it's completely Free!

Visual Studio Community 2015 with Update 2 - DVD (English) - Microsoft Imagine   Free

Available to: Students/Faculty/Staff

Add to Cart

Visual Studio Community 2015 with Update 2 32-bit - Web Installer (English) - Microsoft Imagine   Free

Available to: Students/Faculty/Staff

Add to Cart

You will be prompted for your College Login and Password. When processed, you will have a confirming invoice sent to your Student email. Not on the emailed invoice, but back on the download screen once processed, look for a Product Key Code. Write it down carefully and accurately because you will need it for final installation on the computer you select for working with the course.

This is very good practice for downloading and installing an extremely professional class software. Without the software, you cannot accomplish this course at all; your back up alternative is to use the computers available at all College Campuses.

Part 2.2 of 2, Programming Exercise using a Structure
Points: **75** of 100. Reminder, Part 2.1 should be completed before performing this Part 2.2.

Complete textbook exercise 12.12 found on page 506 of your textbook.
Make sure to follow the instructions carefully and Insert the three classes that are required. Then modify the PayableInterfaceTest class to test the three new classes that were inserted.

The three new classes can be found in your textbook at the following figures: 12.6, 12.7, and 12.8.

The output should look something like the below screenshot.

```
Invoices and Employees processed polymorphically:

invoice:
part number: 01234 (seat)
quantity: 2
price per item: $375.00
payment due: $750.00

invoice:
part number: 56789 (tire)
quantity: 4
price per item: $79.95
payment due: $319.80

salaried employee: John Smith
social security number: 111-11-1111
weekly salary: $800.00
payment due: $800.00

hourly employee: Karen Price
social security number: 222-22-2222
hourly wage: $16.75; hours worked: 40.00
payment due: $670.00

commission employee: Sue Jones
social security number: 333-33-3333
gross sales: $10,000.00; commission rate: 0.06
payment due: $600.00

base-salaried commission employee: Bob Lewis
social security number: 444-44-4444
gross sales: $5,000.00; commission rate: 0.04; base salary: $300.00
new base salary with 10% increase is: $330.00
payment due: $530.00
```