



General Points

- Use the course material located at:
 - o C#@ACC
- Program04 can be completed using content from the following chapters:
 - Welcome! through Classes and Objects
- Create a console application using Visual Studio named Program04.
- Output appropriate results. In other words, all requirements should be output and identified by number.

Requirements

Requirements (these are the requirements to identify by *number*):

- 1. Output a header in the console: "This is Program04"
- 2. Within Program.cs, create a class named Automobile with the following:
 - a. Appropriate PDC and PDDC
 - b. Appropriate getters and setters
 - c. Methods to increase speed, decrease speed, and show speed
 - d. Instance members to track speed, make, model, and color

Using the Automobile class:

- a. Ask users how many Automobiles they would like to create
- b. Request users to input make, model, and color (different property values for each automobile)
- c. Allow users to change speed and report the new speed
- 3. Create a class named Restaurant in its own class file with the following:
 - a. Appropriate PDC and PDDC
 - b. Classic properties (see Triangle.cs) for:
 - i. City
 - ii. Chef





- iii. Cuisine Type
- iv. AAA Diamond Rating (1-5)
- c. Method to return all properties concatenated together into a user readable string
- 4. Create a class *Painting* in its own class file with the following:
 - a. Appropriate PDC and PDDC
 - b. Auto-implemented properties for the following:
 - i. artist
 - ii. genre
 - iii. country
 - iv. year
 - v. wholesale price

Using the Painting class:

- a. Ask users how many Paintings they would like to create
- b. Request users to input appropriate data for each painting
- c. Method to calculate the Painting object retail price based on the following formula:
 - retailPrice = wholesalePrice + commission + tax + duty;
- 4. Output a thank you message: "Thank you for running Program04."
- 5. Output a statement explaining your experiences with Program04. Make this authentic (minimum of 2-3 sentences).

TEST – TEST – TEST your application to ensure it meets requirements.

- Use the list above and the common requirements as a checklist.
- Not meeting all requirements = 0 points for the assignment.