

ITSE 1330 – C# Program 4

- Use the course material located at:
 - <http://www.austincode.com/itse1330/>
- Program 4 can be completed using content from the following chapters:
 - 00-Welcome! through 11-Classes and Objects

Requirements (remember to identify the requirements by number):

- Create a console application using Visual Studio.
 - Name the Solution and Project Program-4.
 - Output appropriate communication messages to the user.
 - Output appropriate results. In other words, all requirements should be output and identified by number.
1. Output a header in the console: “This is Program-4”
 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
 - 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

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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. Method to calculate the Painting object retail price based on the following formula:
 - i. $\text{retailPrice} = \text{wholesalePrice} + \text{commission} + \text{tax} + \text{duty};$
4. Output a thank you message: “Thank you for running Program-4.”

TEST – TEST – TEST your application to ensure the specific program requirements are met.

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



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