

GAME2341 – Assignment 03

General Points



- Use the course material located at:
 - [C# 101](#)
 - [C# Tutorial \(W3Schools\)](#)
- Assignment 03 can be completed using content from the following*:
 - C# 101: Videos 1 – 19
 - C# Tutorial (W3Schools): C# Home – C# Exceptions
- Review the *Common Program Requirements* document
- Create a project named Assignment03
- ***Requirements (remember to identify the requirements by number):***

Requirements

Requirements to be numbered in Assignment 03 (see example image):

1. Output a header in the console:
 - “Welcome to Assignment 03 - <yournamehere>”
2. In a separate .cs file, define an automobile class with at least three properties and at least three methods (one method is a constructor).
3. In Main(), instantiate an object of the automobile type with appropriate data.
4. Access the properties of the object (type automobile) to display the object state.

Apply the class and object concepts presented in Microsoft’s *C# 101* and those from W3Schools *C# Tutorial – C# Classes* to accomplish the requirements below.

5. Include a private member of the automobile class for serial number that is incremented for each new object.

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6. Write a service class to include properties such as fuel, oil, etc. Include a private List<Service> allServices in the automobile class.
 7. Implement relevant functionality and data of your choosing in the automobile class (e.g. add fuel, use fuel, wash).
 8. Implement relevant exception handling to ensure proper operation of the automobile and service classes.
 9. In the automobile class, in a GetServcieHistory method, use an object of the StringBuilder class to record service operations.
 10. In Main, call a GetServiceHistory method to output a service history report.
 11. Include an output statement explaining your experiences with Assignment 03. Make this authentic (minimum of 2-3 sentences).
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TEST – TEST – TEST your application to ensure the specific program requirements are met.

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