Test Case Alpha

Introduction

This is a testcase set for beginner developers in any oops based language(c#, java or any alternates). Please select one of the testcase and publish your code in GITHUB. for more information, please refer the instructions for testcases.

> Please read the Publishing and evaluation details before sending us your response.

Testcase 01 - JSON Read/Write

Create a project to do the following.

- Create a Class with minimum of 4 properties of your choosing.

- Instantiate the Class with a constructor function initializing all the properties.

- Write the instantiated object in a File.

- Read back the Object and print to display in JSON format.

Testcase 02 - Abstract Class

- Define an Abstract Class and create a basic function.

- Create 2 child classes for the above class.

- Override the function of the parent class with different behaviours.

- Use the following question for implementing the above

Question :

Implement the Following setup

- Equipment : base abstract class with abstract method to show and write properties of the equipment.

- Valve: Derived class with custom properties which should be shown and written by overriding the abstract methods from the base class(Equipment).

- Pump: Derived class with custom properties which should be shown and written by overriding the abstract methods from the base class(Equipment).

Note: The show and write functions should be unique for both the derived classes(Valve and Pump). use of extra features like giving a choice to choose which type of equipment (Valve/Pump) to use would be an added benefit.