Department of & Information Systems and Technologies

CTIS 479 - C# Programming in the .NET Framework

2020 - 2021 SPRING

Assignment-1 (7 pts)

Create a Console application and implement the following requirements

- Decide your topic. According to your topic
    1. Create at least 3 classes.
    2. Add **is-a relation** between the classes, there has to be at least **3 level of inheritance**
    3. There has to be at least one **has-a relation** between the classes.
    4. Create at least one **abstract** class.
    5. Call the base class constructor from sub class
    6. Override the base class method in the sub class and from the sub class overridden method, call the base class overridden method.
    7. Last sub class in the in the inheritance must be the final class and cannot be extended.
    8. Implement at least one **interface** with at least one method.
    9. Implement at least one method which has **optional parameters**
    10. Call the methods by using the **named arguments**.
    11. Use at least one **generic collection** and display the **sorted** output
    12. Create a static class with **static constructor.** This static constructor can be used to add objects to the collection.
    13. Create at least one **structure** and use it in your application.
    14. Create at least one **enum** and use it in your application.
    15. Create an use **tuples**
    16. Implement at least one **indexer**
    17. Implement at least one **extension method**
    18. Implement at least one **operator overload**
    19. Create a method(s) with **ref**, **out** and **in** parameters
    20. Create a method(s) so that it can be called with **variable length of parameters**.
    21. Create a **generic** class
- As a project name, give your name and surname
- Due date: 28.02.2020, 23:55
- Late submissions will not be accepted.
- Grading: For each missing item 5/100 will be decremented.