**Practical Questions on Types of Classes in C#**

1. Write a program demonstrating the use of a static class in C#. What are the key restrictions on a static class?
2. Implement an abstract class with an abstract method and a concrete method. Derive a class from it and provide the implementation for the abstract method.
3. Create a program using partial classes to define a Student class in multiple files. Demonstrate how partial classes improve code organization.
4. When should you use an interface instead of an abstract class? Write a program that demonstrates the use of both in the same project.
5. Write a program with a base class and a derived class where the base class has a virtual method and the derived class overrides it. Use the base keyword to call the base class method.
6. Create a sealed class in C#. What error will occur if you attempt to inherit from it? How can you work around this restriction?
7. What are nested classes? Write a program that defines a class within another class and demonstrate accessing the nested class from the outer class.
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