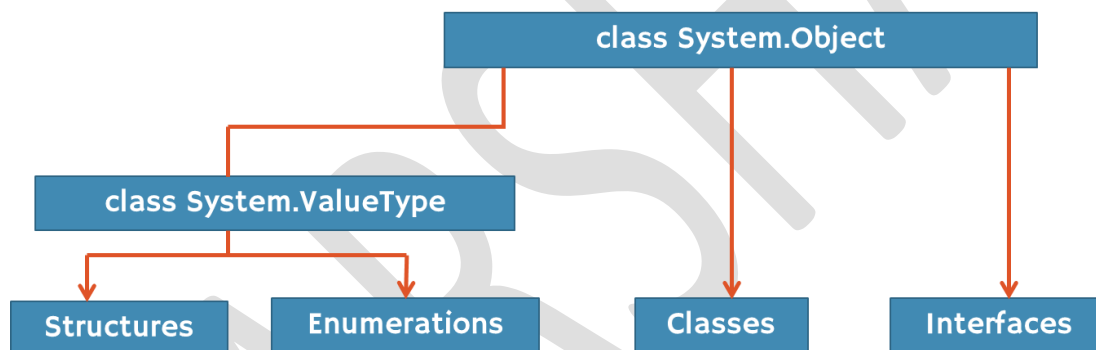


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System.Object class

Introducing System.Object class

- › The "System.Object" is a pre-defined class, which is the "Ultimate super class (base class)" in .net.
- › All the classes and other types are inherited from System.Object directly / indirectly.



Methods of 'System.Object' class

```
System.Object Class [Pre-defined]

namespace System
{
    class Object
    {
        virtual bool Equals(object value);
        virtual int GetHashCode();
        Type GetType();
        virtual string ToString();
    }
}
```

1. bool Equals(object value)

- › Compares the current object with the given argument object; returns true, if both are same objects; returns false, if both are different objects.

2. int GetHashCode(object value)

- › Returns the a number that represents the object. It is not guarantee that the hash code is unique, by default.

3. Type GetType()

- › Returns the name of the class (including namespace path), based on which, the object is created.

4. string ToString()

- › By default, it returns the name of the class (including namespace path), based on which, the object is created.
- › It is virtual method, which can be overridden in the child class.
- › All C# classes, structures, interfaces, enumerations are children of System.Object class.
- › Every method defined in the Object class is available in all objects in the system as all classes in the .NET Framework are derived from Object class.
- › Derived classes can override Equals, GetHashCode and ToString methods of Object class.
- › System.Object class is meant for achieving "type safety" in C#.