

Day-6-Abstract Classes and Interfaces

Abstract Classes

Abstract class is a class that is not meant to be instantiated. It cannot be instantiated. Cannot use the keyword **new** to create an object the class.

It only serves as a super-class/base-class.

Defines the basic data and behavior for a class. Defines a generic version of an object.

An abstract class **may have data, methods** with processing and abstract methods with no processing.

abstract on a method indicates sub classes MUST define the method.
If a class has any abstract methods it too, must be abstract.

Interfaces

An interface defines **behaviors a class must implement** to be **a type of** the interface.

interfaces are **only allowed method signatures. No variables, no methods with processing.**

Rules that a class must follow to be implement the interface.

An interface represents a "**type of**" relationship

A **:** is used in the class declaraion to indicate use of an interface with the class

In C# interfaces names by convention start with '**I**':

```
ICheckingAccount ----> Interface  
CheckingAccount    ----> Class
```