

Interface and Abstract Class

Monday, April 15, 2024 12:40 PM

What is Difference between Abstract Class and Interface.

Well that is an interesting topic, Okay Let me mention one interesting thing before I start with the differences, The both Abstract class and Interfaces are used in abstraction, where you hide how and display the what part to an end user, so we have two different options of achieving the abstraction.

Here are the differences

1. Abstract class contains both **DECLARATION & DEFINITION** of methods.

Interface contains **ONLY DECLARATION** of methods.

2. Abstract class keyword: **ABSTRACT**

Interface keyword: **INTERFACE**

3. Abstract class can contain methods, fields, constants, constructor, static members, methods.

Interface can contain **undefined methods only** nothing else.

4. Abstract class does not Support **MULTIPLE INHERITANCE**

Interface supports multiple inheritance

When to use Interface vs Abstract Class

Use Interface when you know all the derived classes are going to implement their own implementation.

Use Abstract class when you know, that there are going to be some methods with consistent same implementation for all the derived classes.

Normally, interfaces are being used widely as it gives more flexibility to make changes in later stage in the derived classes.

Do Interfaces have constructor?

No, It's just a contract, Constructor are created for classes when object is created from a blue print.
Since Interface is just a contract, not a blue print of a class, we can not have constructor in that.