Assignments:

Create examples

Class aaa implements bbb,ccc // example of implementing multiple interfaces

Class aaa extends bbb // inheritance

Class aaa extends bbb,ccc // class extends more than one class

Can base class pointer store the address of an object created from its derived class

Can a derived call pointer store the address of an object created from its base class

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Aaa interface has a method declaration

Bbb interface is a method declaration with same name as in aaa interface but different parameters (signature)

What will happen

Class ccc implements aaa,bbb

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1. Class aaa implements bbb,ccc // example of implementing multiple interfaces
   1. When we implement multiple inheritance we have to declare all properties.
   2. If both interfaces have same properties then no need to declare it twice in class.

Code: Assignment1.ts

1. Class aaa extends bbb // inheritance
   1. We can not inherit the interface,
   2. To inherit other classes we have to use keyword **extends**.
   3. After inheritance, we can use parent class methods and can override the methods.
   4. We have to use the **Super** method in Constructor.

Code: Assignment2.ts

1. Class aaa extends bbb,ccc // class extends more than one class

Multiple Inheritance is not allowed. (Classes can only extend single class)

Code: Assignment3.ts

1. Can base class pointer store the address of an object created from its derived class?
   1. YES

Code: Assignment4.ts

1. Can a derived call pointer store the address of an object created from its base class
   1. Yes

Code: Assignment5.ts

1. Aaa interface has a method declaration

Bbb interface is a method declaration with same name as in aaa interface but different parameters (signature)

What will happen

Class ccc implements aaa,bbb

Answer:

If we write the same method name in both interfaces with the same signature there will not be any issue, we can declare it once in class and can use it.

As per my output and observations:

**We cannot use the same method with different signatures.**

When I write the same method with different signatures in class,

it gives the error: Duplicate function implementation.

Due to the dynamic nature of Js, I guess it is not allowed to refine the function even with different signatures.

Code : Assignment6.ts:

When I implement both interfaces but do not declare them in class.

It gives an error when declaring that both methods have the same name but different signatures.

Code: Assignment7.ts

After the declaration of both methods with different signature

* Getting error of duplicate function implementation.
* When I am calling one method it's comparing with other signatures as well. And showing error.