

# Java Concept Of The Day

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## Does An Interface Extend Object Class In Java.?

pramodbablad October 30, 2014 | 8

### Does an interface extend Object class in java.?

You may have come across this question while reading about interfaces in java. You may also know that only classes in java are inherited from java.lang.Object class. Interfaces in java don't inherit from Object class. They don't have default parent like classes in java. But, following two cases may surprise you.

#### Case 1 :

If an interface does not extend Object class, then why we can call methods of Object class on interface variable like below.

```
1 interface A
2 {
3
4 }
5
6 class InterfaceAndObjectClass
7 {
8     public static void main(String[] args)
9     {
10         A a = null;
```

## Today's Concept

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```
11
12         a.equals(null);
13
14         a.hashCode();
15
16         a.toString();
17     }
18 }
```

### Case 2 :

If an interface does not extend Object class, then why the methods of Object class are visible in interface.?

```
1  interface A
2  {
3      @Override
4      public boolean equals(Object obj);
5
6      @Override
7      public int hashCode();
8
9      @Override
10     public String toString();
11 }
```

?

### Explanation :

This is because, for every public method in Object class, there is an implicit abstract and public method declared in every interface which does not have direct super interfaces. This is the standard Java Language Specification which states like this,

“If an interface has no direct superinterfaces, then the interface implicitly declares a **public abstract** member method **m** with signature **s**, return type **r**, and **throws** clause **t** corresponding to each **public** instance method **m** with signature **s**, return type **r**, and **throws** clause **t** declared in **Object**, unless a method with the same signature, same return type, and a compatible **throws** clause is explicitly declared by the interface.”

You can go through the Java language Specification 9.2 about interface members [here](#).

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## 8 Comments

**narendra**

August 22, 2015 (12:18 am) <#>

Hi ,

No words to say. Really good concepts. Please keep post more.

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**nilesh sinha**

August 25, 2015 (7:45 am) <#>

really fabulous.....

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**priya**

October 11, 2016 (1:40 pm) <#>

Great. . .no..words. .to say

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**Rajiv**

April 28, 2017 (7:27 pm) <#>

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Awsome..plz keep it up..

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**Gautam**

September 19, 2017 (9:01 am) <#>

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Really Nice ... Please don't ever bring down your site.

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**Sumanth SV**

December 11, 2017 (6:44 am) <#>

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After working for several years on java, this question had not stuck my mind. Good to know. Keep posting..

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**pratik**

February 20, 2018 (7:47 am) <#>

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but thn y @override supp in interface....only overriden method can have @override...??

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**Azhar**

March 21, 2018 (7:59 am) <#>

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Case1 is not working.....

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