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A computer science portal for geeks

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Shadowing of static functions in Java

In Java, if name of a derived class static function is same as base class static function then the derived class static function shadows (or conceals) the base class static function. For example, the following Java code prints "A.fun()"

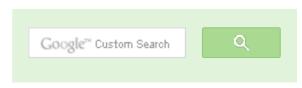
```
// file name: Main.java
class A {
    static void fun() {
        System.out.println("A.fun()");
    }
}

class B extends A {
    static void fun() {
        System.out.println("B.fun()");
    }
}

public class Main {
    public static void main(String args[]) {
        A a = new B();
        a.fun(); // prints A.fun()
    }
}
```

If we make both A.fun() and B.fun() as non-static then the above program would print "B.fun()".

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.





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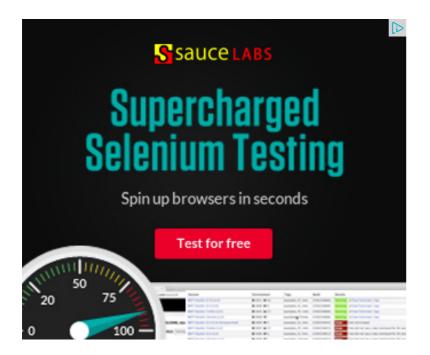
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Yug Singh • 11 months ago

IF ITS SAYING THAT DERIVED CLASS OVERSHADOWS THE BASE CLASS PLOYMORPHISM I.E REFERENCING IS BEING DONE, THEN IT SHOULD P



```
Shiclakhan • a year ago
```

```
package javaBasics.basiC1;
public class StaticMethodShadowingApplication {
        public static void main(String[] args){
                Base b = new Base();
                b.fun();
                Derive d = new Derive();
                d.fun();
                Base.fun();
                Derive.fun();
out put:
A.fun()
A.fun()
A.fun()
A.fun()
```

HIGH-PERFORMANCE COMPUTING ON A UNIVERSITY BUDGET

The quest to find tailored server capabilities on a shoestring

To conduct successful university research and crunch massive amounts of data, you need the highest-performing hardware on the market. Unfortunately, the price tag of high performance can be daunting for researchers who rely on grants to fund their projects.

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4068e

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Mangal → Shiclakhan • 9 months ago

Output is wrong... It should be

A.fun()

B.fun()

A.fun()

B.fun()

/* Paste your code here (You may **delete** these lines **if not** wri ✓ • Reply • Share ›



Pavan Dittakavi • a year ago

Since the output is from the Base class, shouldn't we be mentioning that the b class version instead of the other way around?. I am referring to the following t

In Java, if name of a derived class static function is same as base class static static function shadows (or conceals) the base class static function<<<<. Fc prints "A.fun()"



zyfo2 → Pavan Dittakavi • a year ago agreed



kartik • 3 years ago

This fact is similar to http://geeksforgeeks.org/?p=84.... In C++, for a function, keywords together. In Java, putting a static keyword before function name mal-





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