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## Inheritance -Java Programming MCQ Questions and Answers

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### 6. What will be the output?

```
interface A{
    public void method1();
}
class One implements A{
    public void method1(){
        System.out.println("Class One method1");
    }
}
class Two extends One{
    public void method1(){
        System.out.println("Class Two method1");
    }
}
public class Test extends Two{
    public static void main(String[] args){
        A a = new Two();
        a.method1();
    }
}
```



- A. ☐ **Compilation Error**
- B. ☐ **Class One method1**
- C. ☐ **Class Two method1**
- D. ☐ **Throws a NoSuchMethodException at runtime.**
- E. ☐ **None of these**

Answer & Solution

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## Answer & Solution

**Answer: Option C**

No explanation is given for this question **Let's Discuss on Board** (<https://www.examveda.com/what-will-be-the-output-interface-a-public-java-by-java-programming-on-inheritance-6>)

**7. What is the result of compiling and running this program?**



```
class Mammal{
    void eat(Mammal m) {
        System.out.println("Mammal eats food");
    }
}
class Cattle extends Mammal{
    void eat(Cattle c){
        System.out.println("Cattle eats hay");
    }
}
class Horse extends Cattle{
    void eat(Horse h) {
        System.out.println("Horse eats hay");
    }
}
public class Test{
    public static void main(String[] args){
        Mammal h = new Horse();
        Cattle c = new Horse();
        c.eat(h);
    }
}
```

- A. ☐ prints "Mammal eats food"
- B. ☐ prints "Cattle eats hay"
- C. ☐ prints "Horse eats hay"
- D. ☐ Class cast Exception at runtime.
- E. ☐ None of these

[Answer & Solution](#)

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## Answer & Solution



**Answer: Option A**

No explanation is given for this question [Let's Discuss on Board \(https://www.examveda.com/what-is-the-result-of-compiling-and-running-this-program-java-programming-on-inheritance-7\)](https://www.examveda.com/what-is-the-result-of-compiling-and-running-this-program-java-programming-on-inheritance-7)

**8. Determine output:**

```
class A{
    public void method1() {
        System.out.print("Class A method1");
    }
}
class B extends A{
    public void method2() {
        System.out.print("Class B method2");
    }
}
class C extends B{
    public void method2() {
        System.out.print("Class C method2");
    }
    public void method3() {
        System.out.print("Class C method3");
    }
}
public class Test{
    public static void main(String args[]){
        A a = new A();
        C c = new C();
        c.method2();
        a = c;
        a.method3();
    }
}
```

- A. ☐ Class B method2 Class C method3
- B. ☐ Class C method2 Class C method3
- C. ☐ Compilation Error
- D. ☐ Runtime exception




E. ☐ None of these

Answer & Solution

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## Answer & Solution

**Answer: Option C**

**Solution:**

It is important to understand that it is the type of reference variable - not the type of the object that it refers to - that which determines what members can be accessed. That is, when a reference to a subclass object is assigned to a super class reference variable, we will have access only to those parts of the object defined by the superclass.

In the above program method **method3()** is defined in the class **C** which is a subclass of **B** and so **A**. Even the reference variable **a** refers to **c**, **a** can't access **method3()** as this method is unknown to class **A**.

9. What will be printed after executing following program code?



```
class Base{
    int value = 0;
    Base() {
        addValue() ;
    }
    void addValue() {
        value += 10;
    }
    int getValue() {
        return value;
    }
}
class Derived extends Base{
    Derived() {
        addValue() ;
    }
    void addValue() {
        value += 20;
    }
}
public class Test{
    public static void main(String[] args) {
        Base b = new Derived() ;
        System.out.println(b.getValue()) ;
    }
}
```


- A. ☐ 30
- B. ☐ 10
- C. ☐ 40
- D. ☐ 20
- E. ☐ None of these

[Answer & Solution](#)

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## Answer & Solution

**Answer: Option C**

**Solution:** When object of new **derived** is called, the flow goes to Derived() first, by default super(); is present in Derived() as the first statement, so the flow now goes to Base. Here value is initialised to 0 and then addValue() is called. The addValue has been overridden in Derived() hence The Base's addValue() will perform value+20(0+20). After this control flows back to Derived()'s addValue() where again value+20 is done (20+20). Hence Answer is 40


### 10. What will be the output?

```
class Parent{
    public void method(){
        System.out.println("Hi i am parent");
    }
}
public class Child extends Parent{
    protected void method(){
        System.out.println("Hi i am Child");
    }
    public static void main(String args[]){
        Child child = new Child();
        child.method();
    }
}
```

- A. ☐ Compiles successfully and print
- B. ☐ Compiles successfully and print
- C. ☐ Compile time error
- D. ☐ Run Time error
- E. ☐ None of This

[Answer & Solution](#)[Discuss in Board \(https://www.examveda.com/what-will-be-the-output-java-programming-on-inheritance-10\)](https://www.examveda.com/what-will-be-the-output-java-programming-on-inheritance-10)

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## Answer & Solution

**Answer: Option C**

**Solution:**

We cannot reduce the visibility of the inherited method from super class. If the overridden or hidden method is public, then the overriding or hiding method must be public; otherwise, a compile-time error occurs. If the overridden or hidden method is protected, then the overriding or hiding method must be protected or public; otherwise, a compile-time error occurs. If the overridden or hidden method has default (package) access, then the overriding or hiding method must not be private; otherwise, a compile-time error occurs.



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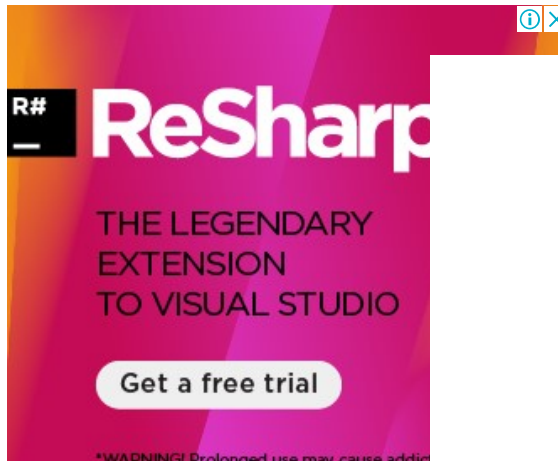
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## Java Program

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