



### How to Diversify Your Holiday Gift Giving This Year

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# Java Default Methods

Java provides a facility to create default methods inside the interface. Methods which are defined inside the interface and tagged with default are known as default methods. These methods are non-abstract methods.

## Java Default Method Example

In the following example, Sayable is a functional interface that contains a default and an abstract method. The concept of default method is used to define a method with default implementation. You can override default method also to provide more specific implementation for the method.

Let's see a simple

```
interface Sayable{
    // Default method
    default void say(){
        System.out.println("Hello, this is default method");
    }
    // Abstract method
    void sayMore(String msg);
}

public class DefaultMethods implements Sayable{
    public void sayMore(String msg){    // implementing abstract method
        System.out.println(msg);
    }

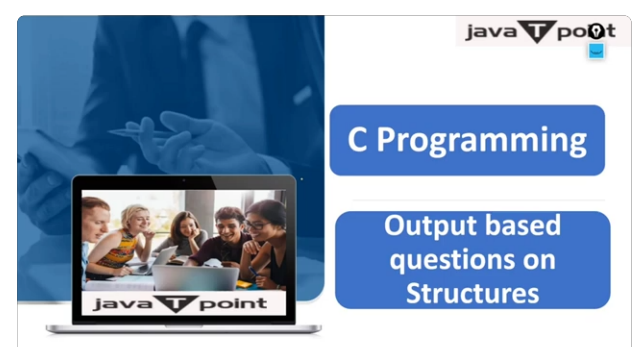
    public static void main(String[] args) {
        DefaultMethods dm = new DefaultMethods();
        dm.say(); // calling default method
        dm.sayMore("Work is worship"); // calling abstract method
    }
}
```

Output:

```
Hello, this is default method
Work is worship
```

## Static Methods inside Java 8 Interface

You can also define static methods inside the interface. Static methods are used to define utility methods. The following example explain, how to implement static method in interface?



```

interface Sayable{
    // default method
    default void say(){
        System.out.println("Hello, this is default method");
    }
    // Abstract method
    void sayMore(String msg);
    // static method
    static void sayLouder(String msg){
        System.out.println(msg);
    }
}

public class DefaultMethods implements Sayable{
    public void sayMore(String msg){    // implementing abstract method
        System.out.println(msg);
    }

    public static void main(String[] args) {
        DefaultMethods dm = new DefaultMethods();
        dm.say();           // calling default method
        dm.sayMore("Work is worship");    // calling abstract method
        Sayable.sayLouder("Helloooo..."); // calling static method
    }
}

```

Output:

```

Hello there
Work is worship
Helloooo...

```

## Abstract Class vs Java 8 Interface

After having default and static methods inside the interface, we think about the need of abstract class in Java. An interface and an abstract class is almost similar except that you can create constructor in the abstract class whereas you can't do this in interface.

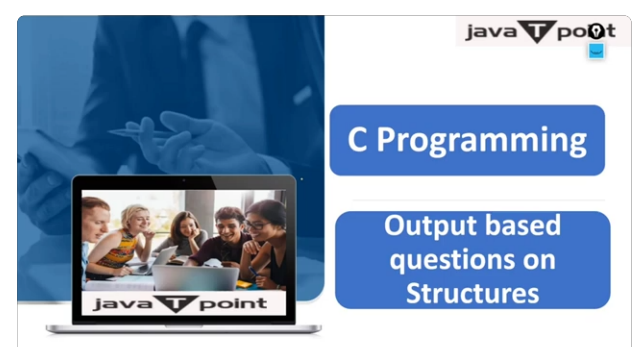
```

abstract class AbstractClass{
    public AbstractClass() {    // constructor
        System.out.println("You can create constructor in abstract class");
    }
    abstract int add(int a, int b); // abstract method
    int sub(int a, int b){    // non-abstract method
        return a-b;
    }
    static int multiply(int a, int b){ // static method
        return a*b;
    }
}

public class AbstractTest extends AbstractClass{
    public int add(int a, int b){    // implementing abstract method
        return a+b;
    }

    public static void main(String[] args) {
        AbstractTest a = new AbstractTest();
    }
}

```



```
int result1 = a.add(20, 10); // calling abstract method
int result2 = a.sub(20, 10); // calling non-abstract method
int result3 = AbstractClass.multiply(20, 10); // calling static method

System.out.println("Addition: "+result1);
System.out.println("Substraction: "+result2);
System.out.println("Multiplication: "+result3);
}
}
```

Output:

```
You can create constructor in abstract class
Addition: 30
Substraction: 10
Multiplication: 200
```

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