
Anotations

Types of Anotation

➤ Marker Anotation

When we do not have any variable or value inside it then it is called Marker annotation.

```
@interface SmartPhone {  
  
}
```

➤ Single Value Annotation

When we have a single variable or value inside it then it is called Marker annotation.

```
@interface SmartPhone {  
    String OS();  
}  
  
@SmartPhone(OS="Android")  
class Nokia{  
  
}
```

➤ Multi value annotation

```
@interface SmartPhone {  
    String OS();  
    int version();  
}  
  
@SmartPhone(OS="Android", version=5)  
class Nokia{  
  
}
```

Setting default Values

```
@interface SmartPhone {  
    String OS() default "symbian";  
    int version() default 4;  
}  
  
@SmartPhone  
class Nokia{  
  
}
```

Fully Working Copy:

```
//Meta Annotations
@Target (ElementType.TYPE)
@Retention(RetentionPolicy.RUNTIME)
@interface SmartPhone {
    String OS() default "symbian";
    int version() default 4;
}

@SmartPhone
class Nokia{

    String model;
    int screenSize;
}

public class AnotationDemo2 {

    public static void main(String[] args) {
        Nokia nokiaPhone=new Nokia();

        Class c=nokiaPhone.getClass();
        Annotation anotation=c.getAnnotation(SmartPhone.class);
        SmartPhone s=(SmartPhone) anotation;

        System.out.println(s.OS());
        System.out.println(s.version());
    }
}
```

Meta Annotations

@Target (ElementType.**TYPE**) →Method, Field ,Constructor, Type[Class ,interface]
@Retention(RetentionPolicy.**RUNTIME**) Source, class
@Documented if we want this annotation in document also
@Inherited To support Inheritance

Fully