

JAVA.LANG.PACKAGE.GETANNOTATIONS METHOD

http://www.tutorialspoint.com/java/lang/package_getannotations.htm

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Description

The **java.lang.Package.getAnnotations** method returns all annotations present on this element. *Returns an array of length zero if this element has no annotations.* The caller of this method is free to modify the returned array; it will have no effect on the arrays returned to other callers.

Declaration

Following is the declaration for **java.lang.Package.getAnnotations** method

```
public Annotation[] getAnnotations()
```

Parameters

- NA

Return Value

This method returns all annotations present on this element

Exception

- NA

Example

The following example shows the usage of lang.Object.getAnnotations method.

```
package com.tutorialspoint;

import java.lang.annotation.Annotation;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.reflect.Method;

// declare a new annotation
@Retention(RetentionPolicy.RUNTIME)
@interface Demo {

    String str();

    int val();
}

public class PackageDemo {

    // set values for the annotation
    @Demo(str = "Demo Annotation", val = 100)
    // a method to call in the main
    public static void example() {
        PackageDemo ob = new PackageDemo();

        try {
            Class c = ob.getClass();

            // get the method example
            Method m = c.getMethod("example");

            // get the annotations
            Annotation[] annotation = m.getAnnotations();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
// print the annotation
for (int i = 0; i < annotation.length; i++) {
    System.out.println(annotation[i]);
}
} catch (NoSuchMethodException exc) {
    exc.printStackTrace();
}
}

public static void main(String args[]) {
    example();
}
}
```

Let us compile and run the above program, this will produce the following result:

```
@com.tutorialspoint.Demo(str=Demo Annotation, val=100)
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```