

Core Java - 4 (Selenium)

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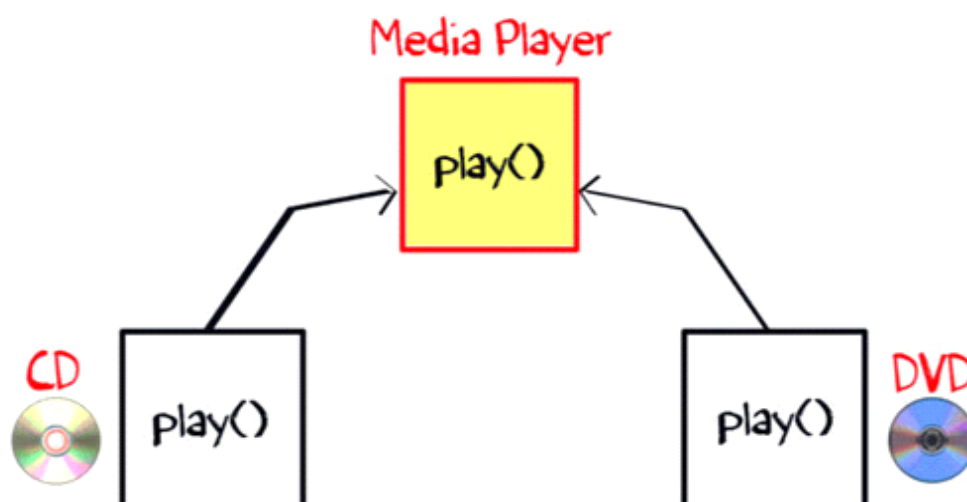
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Interface in Java



- Remote Control manufacturing Unit
- Banking System

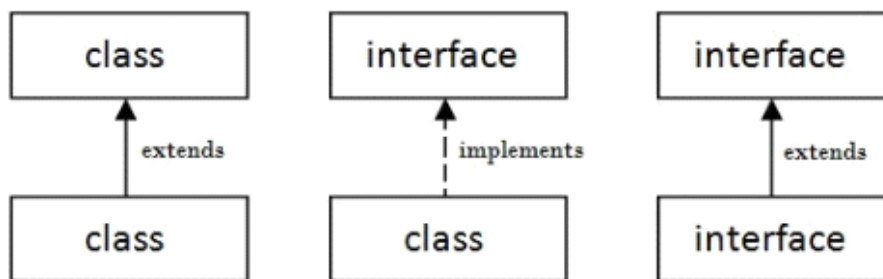
Where do we use Interface



Any system which needs the expected functionality, requires interfaces.

For example, 2 basic functions of a bank is deposit and withdraw. These two functions can be part of interfaces for banking application.

Relationship between class and interface



Multiple Inheritance in Java

If a class implements multiple interfaces, or an interface extends multiple interfaces, it is known as multiple inheritance.

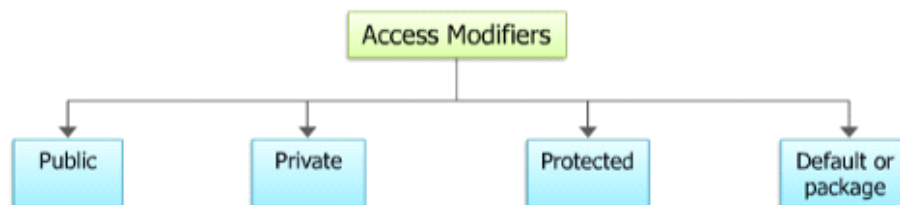


Multiple Inheritance in Java

Packages

Access Modifier

There are 4 Access Modifiers:



These Scope Modifiers can be used for an attribute or for a method.

Exception Handling

An exception is an event, which occurs during the execution of a program, that disrupts the normal flow of the program's instructions -- Oracle

It is often referred to as run-time error.
Below are few of them:

```
Exception in thread "main" java.lang.ArithmeticException: / by zero
    at com.pack2.test.main(test.java:9)
```

```
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 3
    at com.pack2.test.main(test.java:11)
```

```
Exception in thread "main" java.lang.NullPointerException
    at com.pack2.test.main(test.java:12)
```

```
// Divide by Zero Problem
```

```
int x = 5 / 0;
```

```
System.out.println(x);
```

Output

error!
Program will halt.

```
Exception in thread "main" java.lang.ArithmeticException: / by zero
    at com.pack2.test.main(test.java:9)
```

Or

```
// Array Index Out of Bound
```

```
int arr[] = {1, 2, 3};
```

```
System.out.println(arr[3]);
```

Output

error!
Program will halt.

```
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 3
    at com.pack2.test.main(test.java:11)
```

- If there is a run time error then program is crashed and control comes out of the program.
 - This issue can be solved by [exception handling](#).
 - [Mainly, try, catch](#) and [finally](#) are keywords for exception handling.
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Multiple Catch Block

```

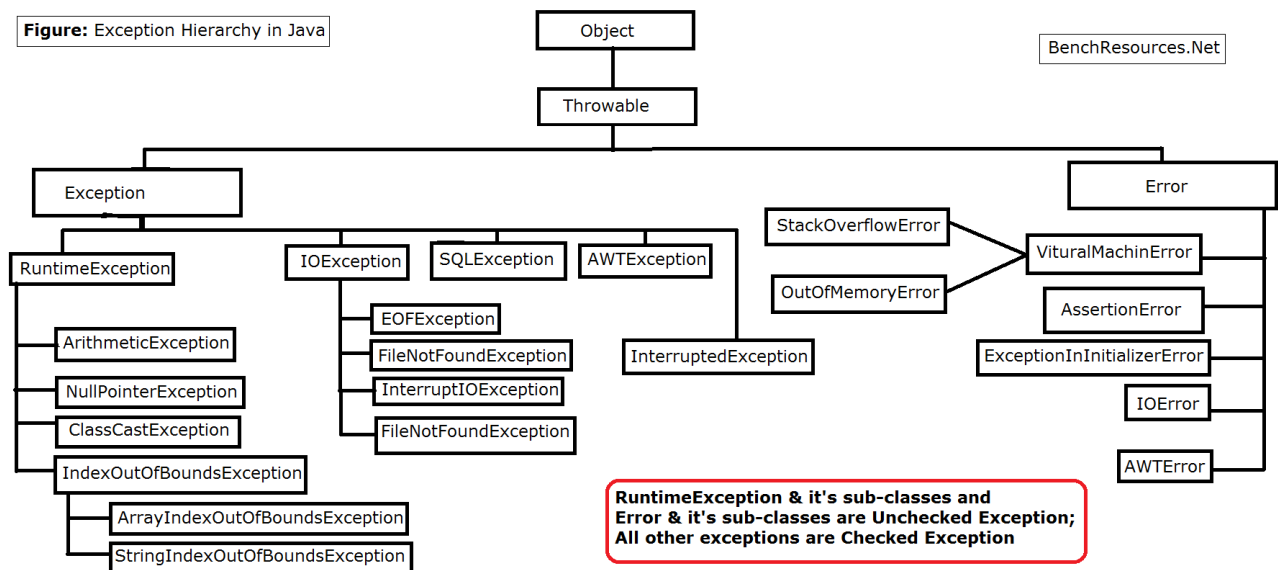
public class ExceptionHandling_demo {

    public static void main(String args[]) {
        try {
            int a = 250, b = 0;
            int c = a / b;
            System.out.println("Result is " + c);
        } catch (ArithmeticException e) {
            System.out.println("Exception is " + e);
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Exception is " + e);
        } catch (Exception e) {
            System.out.println("Exception is " + e);
        } finally {
            System.out.println("In the finally block...");
        }
    }
}

```

Exception Hierarchy

Figure: Exception Hierarchy in Java



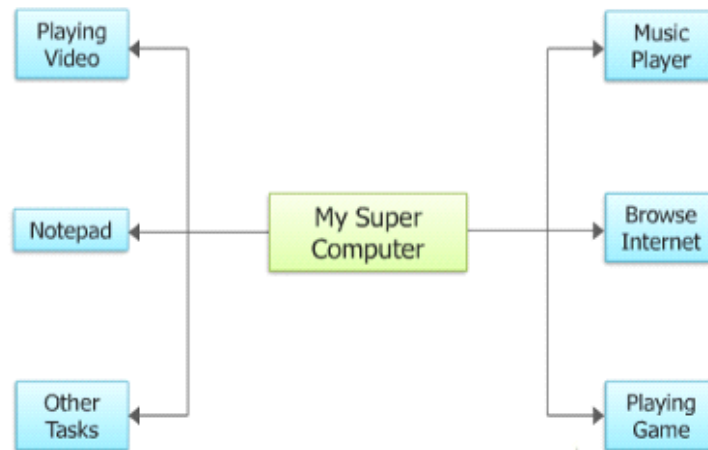
Nested Try Catch

Checked and Unchecked Exception

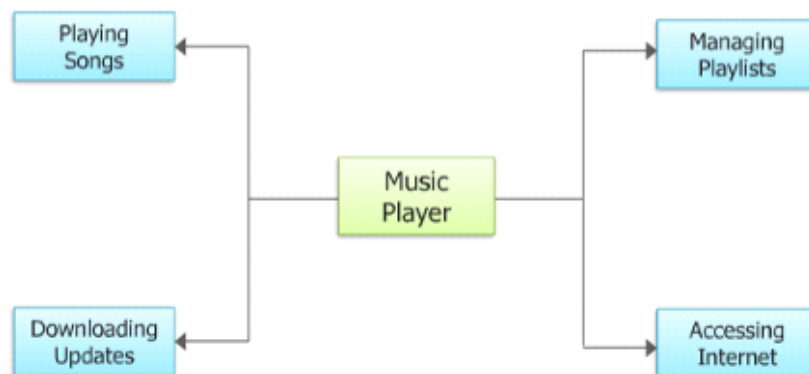
Throw and Throws Keywords

Threading

Every computer has multiple processes running at a time.



Every Application has multiple sub-processes running at a time.



Process V/s Thread

Multi-Threading

In Java, a thread can be implemented in two ways:

- extending from a thread class
 - implementing runnable interface
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