

JAVA EXCEPTIONS CHEAT SHEET

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Exception Handling

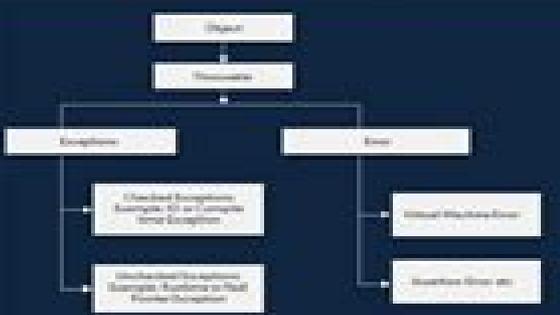
In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IO, SQLException.



Errors Exception

- 1. Represents a serious error that can cause the application to fail.
- 2. All errors are subclasses of java.lang.Error.
- 3. All errors are subclasses of java.lang.Throwable.
- 4. They are not checked exceptions. They happen at run time.
- 5. Errors are caused by the programmer in which the application is running.
- 6. Provides a runtime hint of Exception.
- 7. Exceptions can be checked or unchecked.
- 8. Checked exceptions are those in which the programmer is responsible to handle the exception.
- 9. Unchecked exceptions are caused by the JVM itself.

Exception Hierarchy



Types of Exception in Java with Examples



throw vs throws

```

// Java throw example
void m1() {
    throw new ArithmeticException("Incorrect");
}

// Java throws example
void m2() throws ArithmeticException {}

// Java throw and throws example
void m3() throws ArithmeticException {
    throw new ArithmeticException("Incorrect");
}
  
```

Exception Handling Methods

```

try {
    // Code that throws exception
    System.out.println("Hello World");
}
  
```

```

public class Sampletrycatch {
    public static void main(String args[]) {
        int data=5/0; // throws exception
        System.out.println("Remaining code");
    }
}
  
```

```

public class SamplefinallyBlock {
    public static void main(String args[]) {
        try {
            int a[]=new int[5]; a[5]=10/0;
        } catch(ArithmeticException e) {
            System.out.println("catch is completed");
        } finally {
            System.out.println("finally is completed");
        } catch(Exception e) {
            System.out.println("catch 2 completed");
        }
        System.out.println("remaining code");
    }
}
  
```

```

// Nested try block
class Exception {
    public static void main(String args[]) {
        try {
            System.out.println("going to divide");
            int b=5/0;
            System.out.println("exception: "+(b/0));
        } catch(ArithmeticException e) {
            int a[]=new int[5]; a[5]=4;
        } catch(NullPointerException e) {
            System.out.println("2");
            System.out.println("other statement");
        } catch(Exception e) {
            System.out.println("Exception handled");
            System.out.println("usual flow");
        }
    }
}
  
```

final	finally	finalize
final is a keyword	finally is a block	finalize is a method
Used to apply restrictions on class, methods and variables.	Used to place important code	Used to perform clean up processing just before the object is garbage collected
- final class cannot be inherited	- It will be executed whether the exception is handled or not	
- final method can't be overridden		
- final variable can't be changed		

Fundamentals of Java Exceptions

Basic Exception

```

public class SampleSimple {
    public static void main(String args[]) {
        try {
            // Code that throws exception
            int data=5/0;
        } catch(ArithmeticException e) {
            System.out.println("2");
        }
        System.out.println("rest of the code...");
    }
}
  
```

Exception Methods

```

public String toString()
public Throwable printStackTrace()
public String toString()
public void printStackTrace()
public StackTraceElement[] getStackTrace()
public Throwable printStackTrace()
  
```

Common Scenarios

- ArithmeticException**
int a=5/0;
- NullPointerException**
String str=null;
System.out.println(a.length());
- NumberFormatException**
String str="abc";
int i=Integer.parseInt(s);
- ArrayIndexOutOfBoundsException**
int a[]=new int[5]; a[10]=54;

Exception Methods

- try - The "try" keyword is used to specify a block where we should place exception code
- catch - The "catch" block is used to handle the exception.
- finally - The "finally" block is used to execute the important code of the program.
- throw - The "throw" keyword is used to throw an exception.
- throws - The "throws" keyword is used to declare exceptions.

Exception Handling with Method Overriding in Java

```

// If the superclass method does not declare an exception
class Parent {
    void m1() {
        System.out.println("parent");
    }
}
class ExceptionChild extends Parent {
    void m1() throws IOException {
        System.out.println("ExceptionChild");
    }
}
public static void main(String args[]) {
    Parent parent=new Parent();
    parent.m1();
}
  
```

```

// Subclass overridden method declares parent exception
class Parent {
    class Parent {
        void m1() throws IOException {
            System.out.println("parent");
        }
    }
}
class ExceptionChild extends Parent {
    void m1() throws IOException {
        System.out.println("Child");
    }
}
public static void main(String args[]) {
    Parent parent=new ExceptionChild();
    parent.m1();
}
  
```



finally block

```

class SamplefinallyBlock {
    public static void main(String args[]) {
        try {
            int data=5/0;
            System.out.println(data);
        } catch(NullPointerException e) {
            System.out.println("finally block is executed");
        } finally {
            System.out.println("remaining code");
        }
    }
}
  
```

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web product name 190 hb part b manufacturer carboline product identification product id 190 hb part b msds date 10 10 1989 fsc 8040 niin 00n021200 kit part y msds number blmgx responsible party carboline 350 hanley industrial ct st louis mo 63144 1599 us emergency phone 800 424 9300 chemtrec info

carboline 191 catalyst spectrabase - Nov 06 2022

web sep 15 2023 carboline 190 hb part b carboline 190 hb part a carboline 187 primer 2 methyl alpha carboline ethyl 1 methyl 4 nitroimidazole 2 carboxylate byk catalyst 451 1 n formylpyrrolidin 2 yl 6 bromo 2 formyl 1 2 3 4 tetrahydro beta

carboline 3 6 9 trimethyl 1 2 3 4 tetrahydro gamma carboline methiodide