

# JAVA EXCEPTIONS CHEAT SHEET

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## Exception Handling

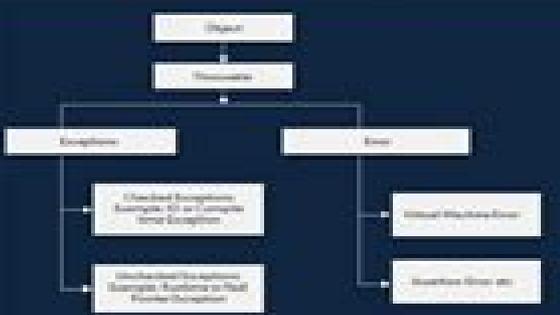
In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IO, SQLException etc.



### 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 notified. Exceptions are those runtime exceptions which are caused by the application.

### 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 block

```

try {
    // Code that throws exception
    System.out.println("I am here");
}
  
```

### catch block

```

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

### finally block

```

public class Samplefinallyblock {
    public static void main(String args[]) {
        try {
            int a[]=new int[10]; a[10]=5/0;
        } catch (ArithmeticException e) {
            System.out.println("Task 1 is completed");
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Task 2 completed");
        } catch (Exception e) {
            System.out.println("Task 3 completed");
        }
        System.out.println("Remaining code");
    }
}
  
```

### Nested try block

```

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

## 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(e);
        }
        // rest of the program
        System.out.println("rest of the code...");
    }
}
  
```

### Exception Methods

```

public String toString()
public Throwable printStackTrace()
public String toString()
public void printStackTrace()
public Throwable printStackTrace()
public void 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]=5/0;

### 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 Exception {
        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 (ArithmeticException e) {
            System.out.println(e);
        } finally {
            System.out.println("finally block is executed");
        }
        System.out.println("Remaining code");
    }
}
  
```

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