

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.

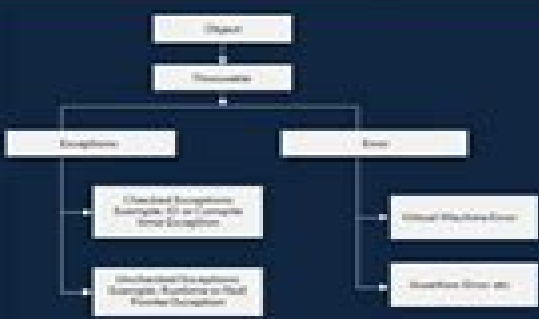


Errors Exception

- 1. Represents a serious error.
- 2. Error are not checked at compile time.
- 3. All errors are checked at compile time.
- 4. They are not thrown automatically.
- 5. They happen at run time.
- 6. Errors are caused by the programmer.
- 7. Errors are not covered by the JVM.

- 1. Represents a recoverable form of Exception.
- 2. Exceptions can be checked at compile time.
- 3. An exception are of compile time Exception.
- 4. Checked exceptions are thrown at compile time as unchecked exceptions are not thrown automatically.
- 5. Exceptions are covered by the JVM.

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("Hello World");
}
  
```

catch block

```

public class SampleCatchBlock {
    public static void main(String args[]) {
        try {
            // Code that throws exception
            System.out.println("Remaining code");
        }
    }
}
  
```

finally block

```

public class SampleFinallyBlock {
    public static void main(String args[]) {
        try {
            int a = new int(1);
            a(1)+1000;
        } catch (ArithmeticException e) {
            System.out.println("Task 1 is completed");
        } catch (Exception e) {
            System.out.println("Task 2 completed");
        } finally {
            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=0;
                int a=10;
                System.out.println(a/b);
            } 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 SampleBasic {
    public static void main(String args[]) {
        try {
            // Code that throws exception
            int a=10;
            int b=0;
            System.out.println(a/b);
        } catch (Exception e) {
            System.out.println("Error at the code...");
        }
    }
}
  
```

Exception Methods

```

public String getMessage()
public Throwable getStackTrace()
public String toString()
public Throwable[] getStackTraceElements()
public boolean isInstanceOf(Class clazz)
public Throwable printStackTrace()
  
```

Common Scenarios

- ArithmeticException**
int a=10; int b=0;
- NullPointerException**
String str=null; System.out.println(str.length());
- NumberFormatException**
String str="abc"; int i=Integer.parseInt(str);
- ArrayIndexOutOfBoundsException**
int a[] = new int[5]; a[10]=50;

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 {
    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 ExceptionChild();
    parent.m1();
}
  
```



finally block

```

class SampleFinallyBlock {
    public static void main(String args[]) {
        try {
            int data=50;
            System.out.println(data);
        } catch (IOException e) {
            System.out.println("e");
        } finally {
            System.out.println("finally block is executed");
        }
        System.out.println("Remaining code");
    }
}
  
```

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