

JAVA EXCEPTIONS CHEAT SHEET

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Exception Handling

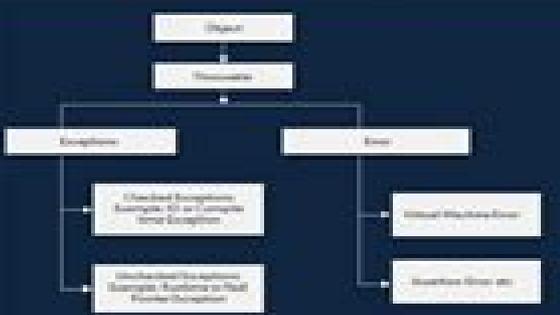
In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IO, SQLException.



Errors Exception

- 1. Represents a serious error, one that a reasonable programmer should not expect to occur.
- 2. All errors are subclasses of java.lang.Error.
- 3. They are not checked exceptions. They happen at run time.
- 4. Errors are caused by the programmer to affect the application's running.
- 5. Provides a runtime hint of Exception.
- 6. Exceptions can be checked or unchecked.
- 7. All subclasses are of java.lang.Throwable.
- 8. Checked exceptions are thrown in compiled code, as unchecked exceptions are the runtime exceptions.
- 9. Exceptions are caused by the programmer.

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[1]=5/0;
        } catch(ArithmeticException e) {
            System.out.println("task 1 is completed");
        } finally {
            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 {
            System.out.println("going to divide");
            int b=5/0;
            System.out.println("exception: "+e);
        } catch(ArithmeticException e) {
            int a[]=new int[5]; a[1]=4;
        } catch(NullPointerException e) {
            System.out.println(e);
        } catch(OtherStatement) {
            System.out.println("other statement");
        } catch(OtherStatement e) {
            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);
        }
        System.out.println("rest of the code...");
    }
}
  
```

Exception Methods

```

public String printMessage()
public Throwable printError()
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();
}
  
```



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		

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(e);
        } finally {
            System.out.println("finally block is executed");
        }
        System.out.println("remaining code");
    }
}
  
```

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web take place within the pump room transfer switch shall be specifically listed for fire pump service one transfer switch shall be dedicated to each fire pump see nfpa 20 03 chapter 9 6 4 10 8 3 1 and 10 8 2 3 u l f m listed built to nfpa 20 03 standard chapter 10 please note to be located within sight of pump motor fire pump

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web when designing or installing electrical power supplies for fire pumps and their accessories you must apply special rules as listed in nfpa 70 the national electrical code nec and the standard for centrifugal fire pumps cfp nfpa 20

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web above in all three auto positions the pumps shall be stopped by hand only as it will be common practice to run the diesel and electrical fire pump at least once a week for a couple of minutes and to prevent any damage to the pumps a return pipe to the reservoir sized for approximately 35 of the pump s duty point flow is to be

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