

JAVA EXCEPTIONS CHEAT SHEET

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 form of error
- 2. Error are of two subtypes of exception
- 3. All errors are of type java.lang.Error
- 4. They are not thrown automatically. They happen at run time.
- 5. Errors are caused by the programmer to affect the application's working.
- 6. Provides a runtime hint of Exception
- 7. Exceptions can be distinguished by subclasses tree
- 8. An exception are of two kind being Exception
- 9. Checked exceptions are known in compile time as unchecked exceptions are the runtime exception
- 10. Exceptions are caused by the developer

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
} catch (Exception e) { }
    
```

catch block

```

public class Sampletrycatch {
    public static void main(String args[]) {
        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[5]; a[1]=5/0;
    } catch (ArithmeticException e) {
        System.out.println("task 1 is completed");
    } catch (FileNotFoundException e) {
        System.out.println("task 2 completed");
    } catch (Exception e) {
        System.out.println("task 3 completed");
    }
    System.out.println("remaining code");
    }
}
    
```

throwing 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) {
        System.out.println("Error");
    }
    }
}
    
```

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); }
    }
}
    
```

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;

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");
    }
}
    
```

| 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 | | |

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