

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.



Errors Exception

- 1. Represents a serious form of error
- 2. Error are of type Throwable
- 3. All errors are of type java.lang.Error
- 4. They are not checked exceptions. They happen at run time.
- 5. Errors are caused by the programmer to affect the application's running.
- 6. Provides a runtime form of Exception
- 7. Exceptions can be checked or unchecked
- 8. Checked exceptions are known to compiler while an unchecked exception are the runtime exception.
- 9. 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 {
    // Code that throws exception
    System.out.println("Hello World");
}

// Catch block
public class SampleTryCatch {
    public static void main(String args[]) {
        try {
            int data=10/0; // throws exception
            System.out.println("Remaining code");
        }
    }
}

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

finally block

```

class Exception {
    public static void main(String args[]) {
        try {
            System.out.println("going to divide");
            int i=10/0;
            System.out.println("ArithmeticException: "+(System.out.println(i)));
        } catch(ArithmeticException e) {
            System.out.println("ArithmeticException: "+(System.out.println(i)));
            System.out.println("other statement");
        } catch(Exception e) {
            System.out.println("Exception handled");
            System.out.println("usual flow");
        }
    }
}
    
```

Fundamentals of Java Exceptions

Basic Exception

```

public class SampleException {
    public static void main(String args[]) {
        try {
            // Code that throws exception
            int data=10/0;
        } catch(ArithmeticException e) {
            System.out.println("ArithmeticException: "+(System.out.println(i)));
        }
    }
}
    
```

Exception Methods

```

public String toString()
public Throwable printStackTrace()
public String toString()
public void printStackTrace()
public Throwable printStackTrace()
public void printStackTrace()
    
```

Common Scenarios

- ArithmeticException**
int i=10/0;
- 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]=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=10/0;
            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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Robert Pulsipher



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rotations at joints are taken as unknowns a set of algebraic equations in terms of unknown displacements rotations is obtained by substituting the force displacement relations into the equilibrium equations

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web the slope deflection method is a procedure for analyzing indeterminate beams and frames it is known as a displacement method since equilibrium equations which are used in the analysis are expressed in terms of unknown joint displacements the slope deflection method is important because it introduces the stu

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web it is to be understood that the slope deflection method is a displacement method or stiffness method unlike the force method or the method of consistent deformation discussed earlier here the unknown displacements are found first solving

the structure s equilibrium equations

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web dec 7 2021 the slope deflection method is one of the displacement based methods developed for structural analysis in this study an approach is proposed for the static analysis of continuous beams

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