

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 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 hint of Exception
- 7. Exceptions can be checked or unchecked
- 8. All exceptions are of type java.lang.Exception
- 9. Checked exceptions are known in compile time as unchecked exceptions are not known in compile time
- 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 {
    // Code that throws exception
    System.out.println("Hello World");
}

// Catch block
public class Sampletrycatch {
    public static void main(String args[]) {
        int data=50/0; // throws exception
        System.out.println("Remaining code");
    }
}

// Multiple catch block
public class SampleMultipleCatchBlock {
    public static void main(String args[]) {
        try {
            int a[]=new int[5]; a[10]=50/0;
        } 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=50/0;
        } catch(ArithmeticException e) {System.out.println(e);}
        finally {
            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=50/0;
        } 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 i=50/0;
- 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 {
    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=50/0;
            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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Table of Contents Java Ee 6 Annotations Cheat Sheet

1. Understanding the eBook Java Ee 6 Annotations Cheat Sheet
 - The Rise of Digital Reading Java Ee 6 Annotations Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Java Ee 6 Annotations Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Java Ee 6 Annotations Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Java Ee 6 Annotations Cheat Sheet
 - Personalized Recommendations
 - Java Ee 6 Annotations Cheat Sheet User Reviews and Ratings
 - Java Ee 6 Annotations Cheat Sheet and Bestseller Lists
5. Accessing Java Ee 6 Annotations Cheat Sheet Free and Paid eBooks
 - Java Ee 6 Annotations Cheat Sheet Public Domain eBooks
 - Java Ee 6 Annotations Cheat Sheet eBook Subscription Services
 - Java Ee 6 Annotations Cheat Sheet Budget-Friendly Options

6. Navigating Java Ee 6 Annotations Cheat Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Java Ee 6 Annotations Cheat Sheet Compatibility with Devices
 - Java Ee 6 Annotations Cheat Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Java Ee 6 Annotations Cheat Sheet
 - Highlighting and Note-Taking Java Ee 6 Annotations Cheat Sheet
 - Interactive Elements Java Ee 6 Annotations Cheat Sheet
8. Staying Engaged with Java Ee 6 Annotations Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Java Ee 6 Annotations Cheat Sheet
9. Balancing eBooks and Physical Books Java Ee 6 Annotations Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Java Ee 6 Annotations Cheat Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Java Ee 6 Annotations Cheat Sheet
 - Setting Reading Goals Java Ee 6 Annotations Cheat Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Java Ee 6 Annotations Cheat Sheet
 - Fact-Checking eBook Content of Java Ee 6 Annotations Cheat Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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