

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 etc.

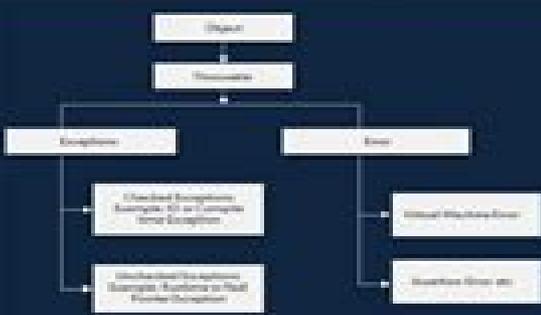


Errors Exception

- 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. Provides a runtime level of Exception.
- 2. Exceptions can be checked at compile time.
- 3. An exception are of compile time Exception.
- 4. Checked exceptions are known to compiler which are checked. Exceptions are the runtime exception.
- 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 {
  // 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");
    } catch(NullPointerException e) {
      System.out.println("Task 2 completed");
    } catch(Exception e) {
      System.out.println("Task 3 completed");
    }
    System.out.println("Remaining code");
  }
}
  
```

```

class Exception {
  public static void main(String args[]) {
    try {
      System.out.println("going to divide");
      int i=5/0;
    } catch(ArithmeticException e) {
      System.out.println(e);
    }
    int a[]=new int[5]; a[1]=4;
  }
  catch(NullPointerException e) {
    System.out.println(e);
  }
  System.out.println("other statement");
  catch(IOException e) {
    System.out.println("IOException handled");
  }
  System.out.println("usual flow");
}
  
```

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		

Fundamentals of Java Exceptions

Basic Exception

```

public class SampleSimple {
  public static void main(String args[]) {
    try {
      // Code that throws exception
      int i=5/0;
    } catch(ArithmeticException e) {
      System.out.println(e);
    }
    // rest of the program
    System.out.println("rest of the code...");
  }
}
  
```

Exception Methods

```

public String toString() {
  return "ArithmeticException: " + e.getMessage();
}

public String toString() {
  return "FileNotFoundException: " + e.getMessage();
}

public String toString() {
  return "IOException: " + e.getMessage();
}
  
```

Common Scenarios

- ArithmeticException**
int i=5/0;
- 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]=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(NullPointerException e) {
      System.out.println(e);
    }
    finally {
      System.out.println("finally block is executed");
    }
    System.out.println("Remaining code");
  }
}
  
```

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