

JAVA EXCEPTIONS CHEAT SHEET

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Exception Handling

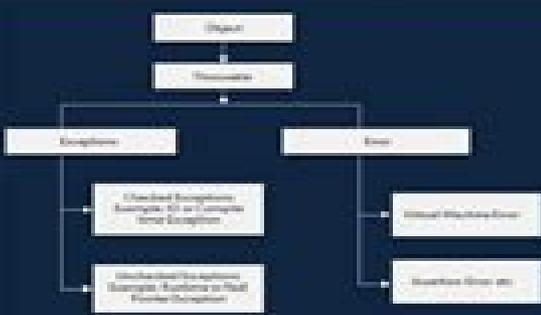
In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IO, SQLException etc.



Errors Exception

- 1. Represents a serious error, one that a reasonable programmer should not be able to catch.
- 2. All errors are subclasses of java.lang.Error.
- 3. They are not thrown automatically. They happen at run time.
- 4. Errors are caused by the programmer in which the application is running.
- 5. Provides a runtime hint of Exception.
- 6. Exceptions can be distinguished by inheritance tree.
- 7. An inheritance tree of java.lang.Error.
- 8. Checked exceptions are thrown in compiled code, an unchecked exception are the errors thrown.
- 9. Exceptions are caused by the application.

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 m1() throws ArithmeticException {}
  
```

Java throw and throws example

```

void m1() throws ArithmeticException {
  throw new ArithmeticException("Incorrect");
}
  
```

Exception Handling Methods

try block

```

try {
  //Code that throws exception
  System.out.println("Java Name");
}
  
```

catch block

```

public class SampleCatchBlock {
  public static void main(String args[]) {
    try {
      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[5]=10/0;
    } catch (ArithmeticException e) {
      System.out.println("Task 1 is completed");
    } catch (ArrayIndexOutOfBoundsException e) {
      System.out.println("Task 2 completed");
    } catch (Exception e) {
      System.out.println("Task 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("caught an exception");
    } catch (ArithmeticException e) {
      System.out.println("e");
    }
    System.out.println("after statement");
    System.out.println("Exception handled");
    System.out.println("usual flow");
  }
}
  
```

Fundamentals of Java Exceptions

Basic Exception

```

public class SampleComp1 {
  public static void main(String args[]) {
    try {
      //Code that throws exception
      int data=10/0;
    } 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 Throwable printStackTrace()
  
```

Common Scenarios

1. **ArithmeticException**
int i=10/0;
2. **NullPointerException**
String str=null;
System.out.println(str.length());
3. **NumberFormatException**
String str="abc";
int i=Integer.parseInt(str);
4. **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 {
  void m1() {
    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=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");
  }
}
  
```

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