

JAVA EXCEPTIONS CHEAT SHEET

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Exception Handling

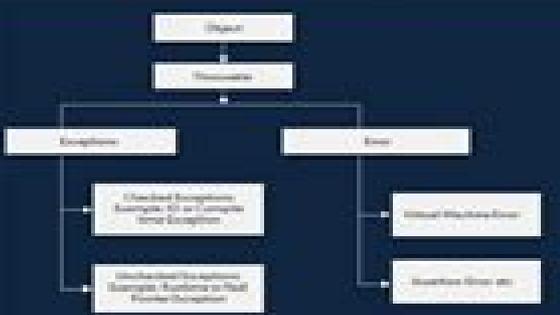
In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IO, SQL, Remote etc.



Errors Exception

- 1. Represents a serious error state
- 2. Error are of type throwable
- 3. All errors are of type java.lang.error
- 4. They are not checked exceptions
- 5. They happen at run time
- 6. Errors are caused by the programmer to affect the application's working
- 7. Provides a runtime hint of Exception
- 8. Exceptions can be checked or unchecked
- 9. An unchecked error is type java.lang.Exception
- 10. Checked exceptions are thrown in compile time or checked exceptions are the errors thrown in which the application is working

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
  SampleException s1=new Sample();
}
  
```

catch block

```

public class SampleException {
  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 (FileNotFoundException f) {
      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 b=10/0;
      System.out.println("caught IOException: "+e);
    } catch (FileNotFoundException f) {
      System.out.println("caught IOException: "+e);
    } catch (ArithmeticException a) {
      System.out.println(a);
    }
    System.out.println("other statement");
    System.out.println("end of try block");
    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 (FileNotFoundException f) {
      System.out.println("caught IOException");
    } catch (ArithmeticException a) {
      System.out.println("caught ArithmeticException");
    }
    System.out.println("rest of the code...");
  }
}
  
```

Exception Methods

```

public String toString() {
  return "Exception occurred";
}

public void printStackTrace() {
  printStackTrace();
}

public void printStackTrace(PrintStream s) {
  printStackTrace(s);
}

public void printStackTrace(PrintWriter w) {
  printStackTrace(w);
}
  
```

Common Scenarios

1. **ArithmeticException**
int a=10/0;
2. **NullPointerException**
String str=null;
System.out.println(a.Length());
3. **NumberFormatException**
String str="abc";
int i=Integer.parseInt(s);
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 SampleChild1 extends Parent {
  void m1() throws IOException {
    System.out.println("SampleChild1");
  }
}

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 SampleChild2 extends Parent {
  void m1() throws IOException {
    System.out.println("SampleChild2");
  }
}

public static void main(String args[]) {
  Parent parent=new Parent();
  parent.m1();
}
  
```



finally block

```

class SampleFinallyBlock {
  public static void main(String args[]) {
    try {
      int data=5/0;
      System.out.println(data);
    } catch (FileNotFoundException f) {
      System.out.println("finally block is executed");
    }
    System.out.println("Remaining code");
  }
}
  
```

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