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JAVA EXCEPTIONS CHEAT SHEET

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Exception Handling

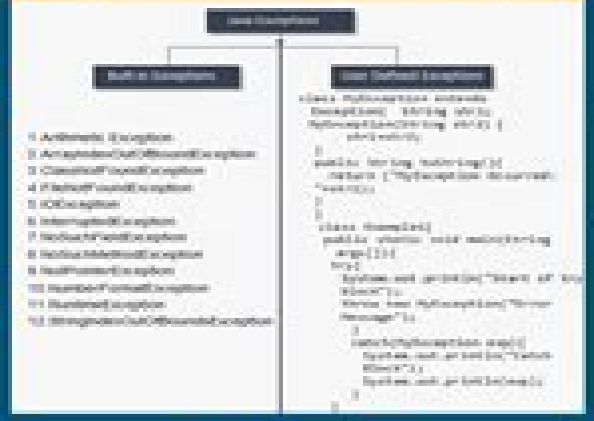
In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFound, IO, SQL, Remote etc.

Error vs Exception

Error	Exception
1. Impossible to recover from error.	1. Possible to recover from Exception.
2. Errors are of type unchecked exception.	2. Exceptions can be checked/Type or unchecked type.
3. All errors are of type java.lang.error.	3. All exceptions are of type java.lang.Exception.
4. They are not known to compiler. They happen at run time.	4. Checked exceptions are known to compiler (about an unchecked exceptions are not known) Exception.
5. Errors are caused by the environment in which the application is running.	5. Exceptions are caused by the application.

Exception Hierarchy

Types of Exception in Java with Examples



throw vs throws

Java throw example

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

Java throws example

```
void a()throws ArithmeticException {}
```

Java throw and throws example

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

Exception Handling Methods

try block

```
try{
//code that throws exception
int a=50/0;exception_class_Name[1]}
```

catch block

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

Multiple catch blocks

```
public class SampleMultipleCatchBlock{
public static void main(String args[]){
try{
   int a[]=new int[5];  a[5]=30/0;
  }
  catch(ArithmeticException e)
       {System.out.println("Task1  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");
}
}
```

Nested try block

```
class Exception{
public static void main(String args[]){
try{
try{
    System.out.println("going to divide");
    int b=39/0;
  }catch(ArithmeticException e){System.out.println(a[a]);}
    try{
        int a[]=new int[5];  a[5]=4;
        }
catch(ArrayIndexOutOfBoundsException e)
{System.out.println(e);}
    System.out.println("other statement");
}catch(Exception e)
{System.out.println("Exception handled");}
    System.out.println("normal flow");
}
}
```

Fundamentals of Java Exceptions

Basic Exception

```
public class ExceptionExample{
   public static void main(String args[]){
      try{
            // code that may raise exception
            int data=100/0;
        }catch(ArithmeticException e){System.out.println(e);}
            // rest of the program
            System.out.println("rest of the code...");
      }
}
```

Exception Methods

```
public String getMessage()
public Throwable getCause()
public String toString()
public void printStackTrace()
public StackTraceElement []
getStackTrace()
public Throwable fillInStackTrace()
```

Common Scenarios

1. ArithmeticException

```
int a=50/0;
```

2. NullPointerException

```
String a=null;
System.out.println(a.length());
```

3. NumberFormatException

```
String s="abc";
int i=Integer.parseInt(s);
```

4. 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

final vs finally vs finalize

final	finally	finalize
final is a keyword Used to apply restrictions on class, methods and variables - Final class cannot be inherited - Final method cant be overridden - Final variable cant be changed	finally is a block Used to place important code It will be executed whether the exception is handled or not	finalize is a method Used to perform clean up processing just before the object is garbage collected

Exception Handling with Method Overriding in Java

If the superclass method does not declare an exception

```
class Parent{
  void msg(){System.out.println("parent");}
}
class ExceptionChild1 extends Parent{
void msg()throws IOException{
  System.out.println("ExceptionChild");
}
public static void main(String args[]){  Parent
 p=new ExceptionChild1();
  p.msg();
}
}
```

Subclass overridden method declares parent exception

```
class Parent{
void msg()throws ArithmeticException{
System.out.println("parent");}
}
class ExceptionChild1 extends Parent{
void msg()throws ArrayIndexOutOfBoundsException{
System.out.println("child");}
public static void main(String args[]){
Parent p=new ExceptionChild1();
try{
p.msg();
}catch(Exception e){}
}
```

finally block

```
class SampleFinallyBlock{
public static void main(String args[]){
try{
  int data=25/5;
  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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