

# How to Handle a java.lang.ArithmaticException in Java?

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In Java programming, the **java.lang.ArithmaticException** is an unchecked exception of arithmetic operations. This means you try to divisible by zero, which raises the runtime error. This error can be handled with the **ArithmaticException**.

**ArithmaticException** can be defined as a runtime exception that can occur during an arithmetic operation due to the exceptional condition. ArithmaticException is part of the **java.lang** package.

In this article, we will learn how to handle a **java.lang.ArithmaticException** in Java.

## Syntax:

```
try {  
    // Code that may throw an ArithmaticException  
    Example: division by zero,  
} catch (ArithmaticException e) {  
    // Exception handling code  
    // Handle the ArithmaticException here  
    This block is executed when an ArithmaticException is caught  
    Example: displaying an error message.  
  
} finally {  
    // Optional block  
}
```

## Program to Handle a java.lang.ArithmaticException in Java

Let us understand programmatically, to handle a **java.lang.ArithmaticException**.

```
// Java program to handle a java.lang.ArithmaticException  
public class GfGArithmaticException  
{  
    // main method  
    public static void main(String[] args) {  
        int dividend = 10;  
        int divisor = 0;  
  
        try {  
            // attempting division by zero  
            int result = dividend / divisor;  
            // print the result  
            System.out.println("Result: " + result);  
        } catch (ArithmaticException e) {  
            // print the error  
            System.out.println("ArithmaticException occurred: " + e.getMessage());  
  
        } finally {  
            System.out.println("This is the example of the ArithmaticException");  
        }  
    }  
}
```

```
}
```

## Output

```
ArithmaticException occurred: / by zero  
This is the example of the ArithmaticException
```

### Explanation of the above Program:

- The above Java program is an example of the ArithmaticException.
- When we try to attempt dividing by zero, then try block raises the exception during the execution of the program.
- Then catch can take control and handle the exception and print the error of which type Exception can occur in the Java program.

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