

JAVA.LANG.STRICTMATH.EXP METHOD

http://www.tutorialspoint.com/java/lang/strictmath_exp.htm

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Description

The **java.lang.StrictMath.exp** method returns **Euler's number e** raised to the power of a double value. It includes these cases:

- If the argument is NaN, then the result is NaN.
- If the argument is positive infinity, then the result is positive infinity.
- If the argument is negative infinity, then the result is positive zero.

Declaration

Following is the declaration for **java.lang.StrictMath.exp** method

```
public static double exp(double a)
```

Parameters

- **a** -- This is the exponent to raise e to.

Return Value

This method returns the value e^a , where e is the base of the natural logarithms.

Exception

- **NA**

Example

The following example shows the usage of **java.lang.StrictMath.exp** method.

```
package com.tutorialspoint;

import java.lang.*;

public class StrictMathDemo {

    public static void main(String[] args) {

        double d1 = 0.0 , d2 = -0.0, d3 = (1.0/0.0), d4 = 5;

        // returns Euler's number e raised to the power positive 0
        double eulerValue = StrictMath.exp(d1);
        System.out.println("Euler value of d1 = " + eulerValue);

        // returns Euler's number e raised to the power negative 0
        eulerValue = StrictMath.exp(d2);
        System.out.println("Euler value of d2 = " + eulerValue);

        // returns Euler's number e raised to the power infinity
        eulerValue = StrictMath.exp(d3);
        System.out.println("Euler value of d3 = " + eulerValue);

        // returns Euler's number e raised to the power 5
        eulerValue = StrictMath.exp(d4);
        System.out.println("Euler value of d4 = " + eulerValue);
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Euler value of d1 = 1.0  
Euler value of d2 = 1.0  
Euler value of d3 = Infinity  
Euler value of d4 = 148.4131591025766
```

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