S.No: 22	Exp. Name: ***Write a Java program to handle an ArithmeticException - divided by zero***	Date:2023-11-03

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Aim:

Write a Java program to handle an `ArithmeticException` **divide by zero** using exception handling.

Write a class called `Division` with a **main()** method. Assume that the **main()** method will receive two arguments which have to be internally converted to **integers**.

Write code in the **main()** method to divide the first argument by the second (as integers) and print the result (i.e the quotient).

If the command line arguments to the **main()** method are **"12", "3"**, then the program should print the output as:

```
Result = 4
```

If the command line arguments to the **main()** method are **"55", "0"**, then the program should print the output as:

```
Exception caught : divide by zero occurred
```

Note: Please don't change the package name.

Source Code:

q11329/Division.java

```
package q11329;
class Division
{
   public static void main(String args[])
   {
      int a,b,result;
      try
      {
         a=Integer.parseInt(args[0]);
         b=Integer.parseInt(args[1]);
         result=a/b;
         System.out.println("Result = "+result);
      }
      catch(ArithmeticException e){
         System.out.println("Exception caught : divide by zero occurred");
      }
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
`Result = 4`

Test Case - 2
User Output
Exception caught : divide by zero occurred