

MODULE-3 EXCEPTION ASSIGNMENT-1

```
//Problem Statement 1:  
//You are provided with a program skeleton that performs a division  
operation. However, there is a  
//possibility of encountering a DivideByZeroException. Your task is to  
complete the program by adding  
//the necessary exception-handling code to catch and handle this exception  
gracefully.  
//Coding:  
  
public class DivideByZeroExample {  
    public static void main(String[] args) {  
        int numerator = 10;  
        int denominator = 0;  
        // TODO: Implement exception handling for divide by zero  
        try {  
            System.out.println("Result: "+ divideNumbers(numerator,  
denominator));  
        } catch (ArithmeticException e) {  
            System.out.println(e.getMessage());  
        }  
  
        }  
        private static int divideNumbers(int numerator, int denominator) throws  
ArithmeticException {  
            // TODO: Implement exception handling for divide by zero  
            return numerator / denominator;  
        }  
    }  
}
```