Phase-1 Practice Project: Assisted Practice2

5. Writing a program in Java to throws, throw, finally, and custom exceptions in Java.

```
-->Source code:
package main;
@SuppressWarnings("serial")
//Custom exception class
class MyException extends Exception {
MyException(String message) {
    super(message);
}
}
//Main class
public class Throws {
// Method that throws an exception
static void divide(int a, int b) throws ArithmeticException {
    if (b == 0) {
        throw new ArithmeticException("Divide by zero error");
    } else {
        System.out.println("Result: " + a / b);
    }
}
// Method that catches an exception and throws a custom exception
```

static void readFromFile(String filename) throws MyException {

```
try {
        // Code to read from file goes here
        throw new Exception("File not found");
    } catch (Exception e) {
        throw new MyException("Error reading file: " + e.getMessage());
    } finally {
        System.out.println("Closing file");
    }
}
// Main method
public static void main(String[] args) {
    // Example of using try-catch block
    try {
        divide(10, 0);
    } catch (ArithmeticException e) {
        System.out.println("Exception caught: " + e.getMessage());
    }
    // Example of using throws keyword
    try {
        readFromFile("test.txt");
    } catch (MyException e) {
        System.out.println("Exception caught: " + e.getMessage());
    }
}
}
```

