

**Course Experiment Report**

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| **Course:** | JAVA Programming | | | | | | |
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| **Semester:** | 2-18th | **week** | 2nd | **year** | | 1st | **term** |
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| **Major:** | Software Engineering Class | | | | | **Class:** | 2018 |
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| **Student name:** | 刘航 | | **Student No.:** | | 222018321062005 | | |
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| **Teacher:** | 王晓蒙 | | | | | | |

School of Computer and Information Science

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| Project | Exception handling | | |
| Time | 2019.11.1 | Type | □Verification □Design □Synthetical |
| **1. Objective**  Master the methods of exception handling in Java language, define exception classes, writes exception handling procedures to capture abnormal events.  **2. Requirement**  Programming the following exercise  **Problem 1:**      **Problem 2:**      **3. Content and design of experiment(main content, operations, algorithm description or code of program)**  **Problem 1**  **Solutions:**  利用try/catch/finally语句对于异常输入进行判断和输出  **Codes:**    **Results:**    **Summary:**  本实验中我利用了java包中自带的异常类型InputMismatchException，并对其进行调用，利用try/catch/finally函数进行异常检查  **Problem 2**  **Solutions:**  自定义异常类型并进行异常判断  **Codes:**      **Results:**    **Summary:**  本实验中我自己重新定义了一种异常类型IllegalTriangleException，并且使其继承于Exception类，然后利用try/catch对其进行异常判断。Throw 在函数体中抛出异常，而throws定义在函数头后面，向主函数中抛出异常，便于catch捕获异常。  遇到问题：无法调用自定义的IllegalTriangleException异常类，并且显示该类不是throwable的子类  解决方法：我在该包中原本定义了Exception.java的的文件，使IllegalTriangleException类成为了我自己定义的Exception类的子类，无法调用java自带包中Exception类中的函数，所以出现了错误。我修改了我自定义的Exception.java文件的名字，可以对自定义的IllegalTriangleException异常类进行正常调用。 | | | |

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| Teacher’s  comments | content and design of experiment（A-E）： |  |
| operations, algorithm description or code of program（A-E）： |  |
| results（A-E）： |  |
| summary and analysis of experiment（A-E）： |  |
| Grade（A-E）： | |