

Web Engineering Lab

Lab 05**Marks 100**

Instructions

Work on this lab individually.

You are **NOT** allowed to use the internet, or mobile phone.

You are **NOT** allowed to borrow anything from your peer student.

What you have to do

Program the following tasks. The name of your files will be according to the task given in this lab.

Task 1**[30]**

Write a program to illustrate the execution of nested try-catch-finally blocks.

In the outer try block, take input from user, convert into appropriate number and handle a **NumberFormatException**.

In the inner try block, access array elements and handle an **ArrayIndexOutOfBoundsException**.

Use a finally block for both inner and outer try-catch blocks to print appropriate messages after handling exceptions.

Task 2**[70]**

Write a custom exception class **OutOfStockException** that includes additional details such as the item name and the quantity requested. Implement a program that simulates an inventory check where an exception is thrown if the requested quantity exceeds the available stock.

Example Input: Item: Laptop, Requested: 5, Available: 2

Expected Output: OutOfStockException: Requested 5 of Laptop, only 2 available.

Instructions:

- Add the desired fields (item_name and quantity) in the **Driver** class.
- Add additional fields and methods to custom exception class to demonstrate the expected output.
- Write a **main()** to show the execution of your code.
- For exit, you may call to **System.exit(0)**

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