

**22/SP-COP-2805C-61163 Java Advanced**

**Assignment 12.03**

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# Document Version Control

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# Document Purpose

The purpose of this document is to demonstrate proper exception handling when searching for an index within an array.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this program is to show the user a selected index based on user input, as well as handle any user inputs that are not within the index.

## Technical Implementation Components

* This program creates an array of 100 random numbers. The user is then prompted to enter an index, and the program will return the value stored in that index. If the user’s selection is not within the selected index, the program will handle the exception accordingly.

## Technical Implementation Pseudocode

*Create array of 100 random integers*

*prompt user for index*

*search index*

*if index exists*

*show index*

*else*

*return out of bounds message*

## ExceptionHandling Implementation

The program starts of by creating an array of 100 random integers. From there, it prompts the user to enter an index. The user input foes through a try catch block to see if the input index exists in the array. If it does, it will return the value stored in that index. If it does not, it will handle the exception by presenting the user with an error message saying that the selected index is out of bounds.