Assessment: Lab 2

Student Name: Christopher Frosst

Lab Professor Name: Dave Houtman

Lab Section Number: 301

Due Date: Jan. 30, 2024

Task 1: Debug the Java Program provided (List corrections)

## Errors

Line 11; There is a space between TestCode and Sec301,

Correction: Lab2\_TestCode\_Sec301

Line 13; (String Args) is missing []

Correction; public static void main(String Args[])

Line 17; usedVolume was not declared

Correction: int fullVolume, usedVolume

Line 27; input.next was not stated as an integer

Correction; input.nextInt()

Line 18; input is not closed

Correction; Line 28: input.close()

\

Task 2: Test the Program

|  |  |  |  |
| --- | --- | --- | --- |
| **Input**  **List inputs only** | **Expected Output**  **What do you expect to see?** | **Actual Output**  **What you actually got** | **Description**  **What just happened, and why?** |
| 15  20  1500 | 15  20  1500  3000 | 15  20  1500  300 | I inputted 3 units. The first 2 units were used in a formula of width x width x height. 3rd unit is used to subtract from the equation of the first 2 units |
| Three | 3 | Exception in thread "main" java.util.InputMismatchException  at java.base/java.util.Scanner.throwFor(Scanner.java:939)  at java.base/java.util.Scanner.next(Scanner.java:1594)  at java.base/java.util.Scanner.nextInt(Scanner.java:2258)  at java.base/java.util.Scanner.nextInt(Scanner.java:2212)  at Lab2\_TestCode\_Sec301.main(Lab2\_TestCode\_Sec301.java:21) | After inputting letters, the code fails. The code expects an integer to be inputted so it will not work |
| 34.5 | 34.5 | Exception in thread "main" java.util.InputMismatchException  at java.base/java.util.Scanner.throwFor(Scanner.java:939)  at java.base/java.util.Scanner.next(Scanner.java:1594)  at java.base/java.util.Scanner.nextInt(Scanner.java:2258)  at java.base/java.util.Scanner.nextInt(Scanner.java:2212)  at Lab2\_TestCode\_Sec301.main(Lab2\_TestCode\_Sec301.java:21) | Inputting decimals causes the code to fail. The code can only take integers and not doubles or floats |
| 20, 31  31, 20  9800 | 20, 31  31, 20  9800  12400  19220  2600  9420 | 20 31  31 20  9800  12369 | Because the code is only expecting one input it will ignore the value and use the first secondary value as soon as possible. The code will not disregard the number inputted and will instead plug it into the next undeclared variable. |
| 48+19 | 67 | Exception in thread "main" java.util.InputMismatchException  at java.base/java.util.Scanner.throwFor(Scanner.java:939)  at java.base/java.util.Scanner.next(Scanner.java:1594)  at java.base/java.util.Scanner.nextInt(Scanner.java:2258)  at java.base/java.util.Scanner.nextInt(Scanner.java:2212)  at Lab2\_TestCode\_Sec301.main(Lab2\_TestCode\_Sec301.java:21) | Expected to see the sum of the 2 numbers but instead an error occurred. Code is only expected for a single integer and will not do the addition within the task |

Task 3: Submit Java Program:

Insert Screenshot of console output here, demonstrating that your code executed correctly.

