Laporan Hasil Praktikum ke-11

Teknik Pemrograman – Defensive Programming



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1A – D4 Teknik Komputer dan Informatika

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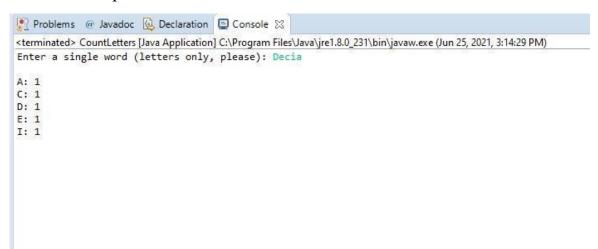
Case 1: Exceptions Aren't Always Errors

Source Code:

CountLetters.java

```
package case1;
//occurrences of each letter in that word. //
import java.util.Scanner;
public class CountLetters {
  private static Scanner scan;
public static void main(String[] args) {
     int[] counts = new int[26];
     scan = new Scanner(System.in);
     System.out.print("Enter a single word (letters only, please): ");
     String word = scan.nextLine();
     word = word.toUpperCase();
     for (int i=0; i < word.length(); i++)
     counts[word.charAt(i)-'A']++;
     System.out.println();
     for (int i=0; i < counts.length; i++)
     if (counts [i] != 0)
     System.out.println((char)(i +'A') + ": " + counts[i]);
```

Screenshot Output:



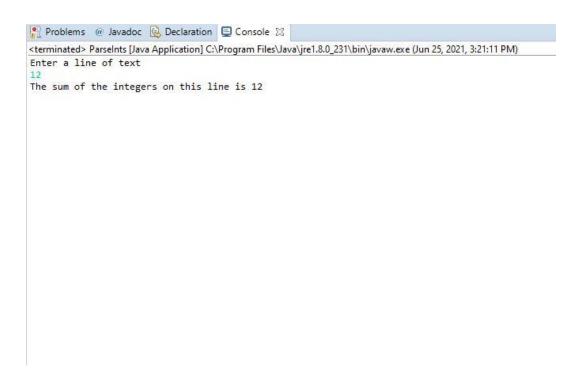
Case 2 : Placing Exception Handlers

Source Code:

ParseInts.java

```
package case2;
import java.util.Scanner;
  private static Scanner scan;
  private static Scanner scanLine;
  public static void main(String[] args) {
    int val, sum=0;
    scan = new Scanner(System.in);
    System.out.println("Enter a line of text");
    scanLine = new Scanner(scan.nextLine());
    while (scanLine.hasNext()){
    val = Integer.parseInt(scanLine.next());
    sum += val;
    System.out.println("The sum of the integers on this line is " + sum);
```

Screenshot Output :



Case 3: Throwing Exceptions

Source Code:

MathUtils.java

Factorials.java

Screenshot Output:

```
Problems @ Javadoc Declaration Console SS

Factorials [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (Jun 25, 2021, 3:25:49 PM)

Enter an integer: 27
Factorial(27) = 1484783616

Another factorial? (y/n)
```