**Java Academic Portfolio-2**

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| * Theme: 輸入、運算式及輸出 Date: 2023/03/13 * Goal: 輸入二整數，進行計算，計算結果分別存入不同變數且輸出結果。   ；且不同作用每行（import, class, main, System.out.）都要加註解。 |
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| My thinking process:  I set 5 integral variables in total, two are designed for users to input numbers, while others are designed for calculation. However, I set floating point for one specific number since it’s used to do the division. Also, I additionally set 4 strings to output the calculating results. |
| Source code: calculate\_1.java  import java.util.\*;  public class calculate\_1{  public static void main(String args[]){  int n1, n2, n3, n4, n6,n7,n8;  double n5;  Scanner keyb;  String msg1, msg2, msg3, msg4,msg5,msg6;  keyb = new Scanner(System.in);//產生Scanner物件  System.out.println("Please type in an integer:");//printf()  n1 = keyb.nextInt();//scanf()  System.out.println("Hi, please type in another integer:");  n2 = keyb.nextInt();  System.out.println("Calculating!");  n3 = n1+n2;  n4 = n1-n2;  n5 = n1/n2;  n6 = n1%n2;  n7 = n1\*n1;  n8 = n2\*n2;  msg1="Integer1 + Integer2="+n3;  msg2="Integer1 - Integer2="+n4;  msg3="Integer1 / Integer2="+n5;  msg4="The remainder of Integer1 / Integer2="+n6;  msg5="Square of integer 1 is "+n7;  msg6="Square of integer 2 is "+n8;  System.out.println(msg1);  System.out.println(msg2);  System.out.println(msg3);  System.out.println(msg4);  System.out.println(msg5);  System.out.println(msg6);  }//main()  }//class |
| Results: |
| Reflections:   * DEBUG: * At the very first, I didn’t put a semicolon after the formulas which made a bug for the program. * I also learned how to use variable when coding in Java. * Most importantly, I understood the difference between strings and integers. * This task seemed pretty demanding at first, but I succeeded to tackle it after I reviewed my note and did some research on the Internet.   ( 4 )寫完第2程式習題，熟悉輸出敘述及java程式結構?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 5 )寫完第2程式習題，熟悉輸入敘述?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 3 )寫完第2程式習題，熟悉變數概念?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 4 )寫完第2程式習題，熟悉運算式（如a\*b-c）?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 4 )寫完第2程式習題，熟悉cmd編輯、編譯、執行之操作環境?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 4 )寫完第2程式習題，理解編輯(edit)概念?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 4 )寫完第2程式習題，理解編譯(compile)概念?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 5 )寫完第2程式習題，理解 偵錯(debug)概念?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉  ( 4 )寫完第2程式習題，理解執行(run)概念?  5.非常熟悉 4.熟悉 3.普通 2.不熟悉 1.非常不熟悉 |