Java Homework 1

1.Write an application program that inputs three integers from the user by using input dialog and displays the sum, average, product, smallest and largest of the numbers on the message dialog.

Case I: without defining any function in your program except the main function.

Case II: define “smallest” and “largest” function in your program.

1. Please describe how the Java application program is executed in this problem.
2. Please describe the differences between these two cases in your programs.

2. Redo problem 1 by using JavaFX program.

Input data from the Input dialog, Output the result on the stage.

Please describe how the JavaFX program is executed in this problem.

3. Write an application program that determines the change to be dispensed from a

vending machine. An item in the machine can cost from 25 cents to one dollar, in

5-cent increments (25, 30, 35, …90,95,100), and the machine accepts only one

single dollar bill to pay for the item. For example, a possible sample dialog might

be:

Enter price of item:

(from 25 cents to one dollar, in 5-cent increments): 45

You bought an item for 45 cents and gave me one dollar.

So your change is

2 quarters,

0 dime, and

1 nickel

Note:

Penny=1 cent= 0.01 dollar

Niclel= 5 cents= 0.05 dollar

Dime= 10 cents=0.1 dollar

Quarter=25 cents=0.25 dollar

1. Write a JavaFX program that read a file name from the input dialog. The file name should has one . (dot) character in it, separating the file name from the file extension. Retrieve the file extension and display the result on the stage.

For example:

If the user inputs JavaTest1.html, you should output the file extension is ***html****.*

If the user inputs Test2.java you should output the filet extension is ***java***.