

Lab 1

Due: In class portion – August 27

Out of class portion – September 10

From the textbook pages 16-18(note there may be slight changes from the text – be sure and read these assignments. These will all be done in Visual Logic.

1. **Hello Me:** Write a program with one input. The user should supply their name. The program should then display the message “Hello” followed by their name. For example, “Hello Kathy” **(in class)**
2. **Run the Numbers.** Write a program with two input values. The program should display the sum, difference, quotient, product, and average of the two numbers. **(out class)**
3. **Correct Change:** Write a program to assist a cashier with determining correct change. The program should have one input the number of cents to return to the customer. The output should be the appropriate change in quarters, dimes, nickels and cents. (Hint: Consider how integer division (\div) and integer remainder (Mod) can be used as part of your solution. You may need to create extra variables to hold remainders. **(in class)**
4. **Smallest of Five: Write a program that displays the smallest of five input values that may include duplicate values (e.g., 6,4,8,6,7).** Hint: review the fours solutions in the smallest number case study in this chapter. Consider how easy or hard it would be to modify each of those algorithms to find the smallest of five rather than three values. Then modify the algorithm you consider most appropriate for this problem. **(in class)**
5. **Grade Determination:** Write a program that will input 3 test scores. The program should determine and display their average. The program should then display the appropriate letter grade based on the average. The letter grade should be determined using (a = greater than 90, b = 80-89.999; c = 70 – 79.999; d = 60 – 69.999; f is less than 60). **(Out class)**