

IST 256  
Lab  
Week 8 – Tuesday, March 6, 2012

**1. Understanding how to write a method**

Write a method according to the following

1. There is only one parameter and it is an integer
2. The method does the following:
  - If the value of the integer is between 0 to 99, then return the message “o.k.”
  - If the value of the integer is smaller than 0 or larger than 99, then return the message “Mistake!”

First write the method header line for this method. You will need to decide on a method name and what is the type of the result.

Next write the method body to do the computation described. Do you need any local variables? Don't forget to include a return statement.

**2. Understanding arrays**

Write a piece of a program that will declare an array called *numbers* that can have 25 elements and then has a loop that for every array index *i* will assign the value ( $i * 5$ ) to that element of the array.



iv. Add code to declare an array whose size is the integer number. Then write a for loop that for every array index  $i$  will assign the value ( $i * \text{multiplier}$ ) to that element of the array. (Refer to problem 2 in this assignment.)

v. Now initialize an output String variable to the empty string and write a loop that will go over every element of the array and append an array value and a space to the output String. This doesn't have to be a multi-line label. For example, if the number of elements is 5, and the multiplier is 3.0, we could create the String:

0.0 3.0 6.0 9.0 12.0 15.0

vi. Display the string in the results label.

**d. Test this program.**

Try several ways to type in numbers, letters or special characters that will not be either a valid integer or double. Note the message in the output pane as well as the dialog box.

Show examples which you tried and gave NumberFormatExceptions:

Examples:

**Hand in your lab sheet and your program by next the Tuesday after spring break, March 20.**