Test 2 Study Guide:

Please keep in mind that this test builds off concepts established in the first lectures/chapters.

Chapter 5: Decision Making

- Know what they are and how to use:
 - o if/else if/else statements
 - Nested if statements
 - Compound boolean expressions
 - Logical operators (AND/OR/NOT)
 - Relational operators (<, > , <=, >=)
 - Equality operators (==, !=)
 - o switch statement
 - o break statement
 - Short circuit evaluation

Chapter 6: Looping

- Know what they are and how to use:
 - Basic looping/iteration structure
 - while loops
 - Add/Subtract/Divide/Multiply and assignment operators
 - Prefix and postfix operators
 - o for loops
 - o do while loops
 - Nested loops

Chapter 7: Strings

- Know what they are and how to use
 - The String datatype
 - The Character datatype

In Class Lab for Test 2

Write these programs on paper and when finished, enter them into the computer and run them to see how you did.

1.)

Write a program that computes FizzBuzz for all numbers from 1 to 5000. FizzBuzz is a pattern which follows these rules:

- If the number is divisible by 3, write "Fizz" to console
- If the number is divisible by 5, write "Buzz" to console
- If the number is divisible by both 3 and 5, write "FizzBuzz" to console
- If the number does not fall in the above categories, write the number to console.

The output should look like:

2.)

Write a program that takes in grades as input until the user enters a -1 into the console. Compute the average of the grades.

The output should look like:

Please enter grade: 45 Please enter grade: 48 Please enter grade: 50 Please enter grade: -1

Average is: 47.66666666667