**CSC 112 Test 1 Study Guide**

1. Circle the valid variable names:
   1. False
   2. \_12adr
   3. grand total
   4. 5dollars
   5. Count
   6. My\_name
   7. play-again
2. Calculate the value of each of the following:
   1. 2 \* 3 + 5 =
   2. 5 + 9 / 3 \* 2 – 7 =
   3. 2 \* 9 + (7 – 2 \* 3) =
   4. 5 // 2 =
   5. 5 / 2 =
   6. 7 % 3 =
   7. (5 - 2) \*\* (3 - 1) + 5 \* 3 =
   8. 5 - 2 \*\* 3 - 1 + 5 \* 3 =
   9. 2.4 / 3 =
   10. 10.0 // 3 =
   11. 8 % 9 =
3. Do you know how to use ‘\n’, ‘\t’, end=?
4. Can you describe all the data types we have had so far and give examples?
5. How would you print a value to 3 decimal places and allow it a width of 7 characters?
6. What are the Relational Operators?
7. What are the Logical Operators? How do they work?
8. What is the difference between = and ==?
9. Do you know how to use if, elif, and else?
10. Do you know how to get input?
11. Do you know how to use a for loop? How about a while loop? A validation loop?
12. Can you write the following with one hand tied behind your back?

Asks the user for an integer between 5 and 10 inclusive, and keeps doing it until the user enters a number in the range.

Adds all the even numbers from 1-100 inclusive and prints the result.

Determines many yards, feet, and inches tall a 73 foot tall building is.

Asks user for height in feet and inches, and prints how many inches tall the person is.

Prints a student’s letter grade based on a numerical grade.