CSCI-C 200

**Lab 3 - Functions**

**Description**

Design a program with a purpose and meet the following requirements:

* 1. Have at least 3 user defined functions (5’)
  2. At least one function is called within another function (5’)
  3. At least one function takes two parameters (5’)
  4. At least one function returns a value (5’)
  5. At least one global variable is used and accessed inside a function (5’)
  6. Program runs successfully (30’)
  7. Program generates correct and meaningful output (5’)
  8. Have a standard file header (5’)
  9. Have good naming conventions (variable names, function names, file name) (5’)
  10. Have adequate comments (5’)
  11. Have meaningful code blocks (10’)
  12. Have an algorithm design file
      1. Algorithm design is detailed enough. Must also have algorithm design for each function. (5’)
      2. Algorithm design is accurate and complete. (5’)
      3. Program follows the algorithm design. (5’)

Sample Program Ideas:

Implement a simple calculator, e.g. adding, subtracting, multiplying, and dividing two values.

Find areas for different shapes.

You can use ideas in lab 2.

**Submission**

Submit a script (.py) file and an algorithm design file (.docx) on Canvas.