CSCI C200

**Lab 2 - Variables and Expressions**

**Description**

Design and create a python program that outputs a paragraph using variables and expressions. You must define three types of variables, and define at least five variables. At least one mathematical operation must be used in the program. Examples –

* + Temperature conversions(convert a temperature from Celsius to Fahrenheit and vice versa)
  + Currency conversions (convert a value in one currency to different currency values)
  + Finding areas of different shapes

All values must be stored in variables before they are used. The output must be a paragraph using at least four variables and computation result(s).

**Rubric**

1. At least three types of variables are created (5’)
2. At least five variables are created (5’)
3. All values used are stored in variables (5’)
4. At least one mathematical computation is performed (5’)
5. Output is a paragraph using at least four variables and computation result(s) (5’)
6. Program runs successfully and output values are correct. (30’)
7. Have a standard file header (5’)
8. Have good naming conventions (in variable names and Python file name) (5’)
9. Have adequate comments (10’)
10. Have code blocks (5’)
11. Problem description in the algorithm design file is clear and concise (5’)
12. Algorithm design is detailed enough (5’)
13. Algorithm design is accurate and complete (5’)
14. Program follows the algorithm design (5’)

**Submission**

Submit an algorithm design file in .docx format and your Python script file on Canvas.