CPSC 1301, Computer Science I Quiz

Quiz 2b

This is a timed test. You have thirty minutes to complete the test. Your deliverable will be a plain text file, that is, an ASCII file with a `.txt` file extension. When you finish the test, upload your deliverable to Canvas. Do not publish your answer to your `git` repository.

1 Programming

Write a Python program that takes one integer as a command line argument, representing one side of a square or cube, and computes (1) the perimeter of the square, (2) the area of the square, (3) the volume of the cube, and (4) the surface area of the cube.

Please follow these instructions very carefully:

1. Open your text editor (e.g., Notepad++) and create a script file named `Quiz02b_lastname.py`.

2. Write a prompt asking the user to enter a integer greater than zero.

3. Accept the input, converting the string to an integer.

4. Write a function that accepts one integer as input and returns void.[1]

5. The function should compute the perimeter, area, volume, and surface area as instructed.

6. The function should print the four values obtained.

7. Call the function using the user's input as the parameter.

8. Run the script.

9. As your deliverable, you will submit *both* the script file and the output from running the script.

The objective of this quiz is to test your ability to write a script file that gets input from the user and calls a function that passes the user's input as an argument to the function.

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[1] "Returns void" means that the function does not return any value.