

CSE 1321L: Programming and Problem Solving I Lab

- o Review of I/O (input and output)
 - o Review reading input from the user and storing it into variables
 - o Review doing basic calculations with variables to generate a solution.



Content

- o Overview
 - o Lab4A: What is my grade
 - o Lab4B: Creating a menu
 - o Lab4C: Triangle Types

Overview

- o Lab4A.py
 - o Lab4B.py
 - o Lab4C.py

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Enter your grade: **97.2**
Letter grade is: A+

Sample Output #3:

Enter your grade: **43.4**
Letter grade is: F

Lab4B: Creating a menu

> : X Ù e \Ù+ÍæÙ ô „ô X è \ô àÙ ... :jÙÍXôÙ : 2 Ù e:ÙèXôíeôÙíÙæí\ èÙUX: xí
\\ô + ôíæÙ : U e : 2 Ù x: 1 ÙíÙ 1 ô 2 jâÙ\ô+ôèe 2 ÙíÙ 1 -ôXô2eÙ:U e : 2 Ù x: 1 Ù e
2 ÙíÙ 1 -ôXô2eÙ:j e è : 1 ô ß ~~Solutions lab, this lab must exclusively use a~~

For this lab:

- o Welcome the user by printing "Hello come!" .
- o Prompt the user to enter a number and read it. This input value will be the ~~that number~~ program will perform the calculation
 - The user output can contain decimal values
- o Next, print the menu options as shown in the sample output.
- o

- 1) Get the reciprocal of the number
- 2) Square the number
- 3) Cube the number
- 4) Exit the program

1

The reciprocal of 50.4 is 0.02

Sample Output #3:

Welcome!

Please input a number: **500**

What would you like to do with this number:

- 0) Get the additive inverse of the number
- 1) Get the reciprocal of the number
- 2) Square the number
- 3) Cube the number
- 4) Exit the program

2

The square of 500.0 is 250000.0

Sample Output #4:

Welcome!

Please input a number: **9**

What would you like to do with this number:

- 0) Get the additive inverse of the number
- 1) Get the reciprocal of the number
- 2) Square the number
- 3) Cube the number
- 4) Exit the program

3

The cube of 9.0 is 729.0

Sample Output #5:

Welcome!

Please input a number: **98234**

What would you like to do with this number:

- 0) Get the additive inverse of the number
- 1) Get the reciprocal of the number
- 2) Square the number
- 3) Cube the number
- 4) Exit the program

4

Thank you, goodbye!

Sample Output #6:

Welcome!

Please input a number: **130.4**

What would you like to do with this number:

- 0) Get the additive inverse of the number
- 1) Get the reciprocal of the number
- 2) Square the number
- 3) Cube the number
- 4) Exit the program

5

Invalid option!

Sample Output #7:

Welcome!

Please input a number: **0**

What would you like to do with this number:

- 0) Get the additive inverse of the number
- 1) Get the reciprocal of the number
- 2) Square the number
- 3) Cube the number
- 4) Exit the program

1

Cannot divide by 0!

Lab4C:Triangle Types

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Enter the second side of the triangle: **15**
Enter the third side of the triangle: **15**
The triangle is an isosceles triangle.

Sample Output #3:

Enter the first side of the triangle: **10**
Enter the second side of the triangle: **8**
Enter the third side of the triangle: **3**
The triangle is a scalene triangle.

Sample Output #4:

Enter the first side of the triangle: **6**
Enter the second side of the triangle: **9**
Enter the third side of the triangle: **15**
The sides do not form a valid triangle.