CSE 1321L: Programming and Problem Solving I Lab

- Review of I/O (input and output)
- o Reviewreading 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

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

is \ : • 2 Ùred taha bolo

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

>:XÙe \Ù+ĺæÙô"ôXè\ôàÙ...:jÙĺXôÙ: 2 Ùe:ÙèXôĺeôÙĺÙæĺ\èÙUX: Xĺ\ô+ôĺè2eÙ:Ue:2Ù X:1ÙĺÙ1ô2jâÙ\ô+ôèe 2 ÙĺÙî ¯ôXô2eÙ:Ue:2Ù X:1Ùe 2ÙĺÙî ¯ôXô2eÙ:jeè:1ôß **LÙsTodruthois Hab**r,thyiosulab must exclusively use a

For this lab:

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

0

- 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 trrtrrrii