Programming Lab (Lab 7)

zyBooks Chapter 4 & Python

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INTRODUCTION

In this lab, we used a combination of practices. We read chapter 4 of "Programming Fundamentals" in zyBooks. Following the reading, we wrote two separate programs in Python. The first one was to calculate the area of a triangle (who's dimensions were inputted by the user) and then determine if it were a Right-Angled or not. The second one was to determine what quadrant a set of points were located (who's X & Y values were inputted by the user). Below outlines the work in greater detail.

OBJECTIVES

- Further enhance our understanding in Python.
- Further enhance our understanding with the math module in Python.
- > Develop more efficient ways to create code in Python.

MATERIAL USED

> (1x) computer for zyBooks and Python.

PROCEDURE

- **Step 1**: Read the instructions outlined in the **lab paper**.
- > <u>Step 2</u>: Follow the instructions given from the **lab paper** (Follow the order of given instructions *i.e.* "Read zyBooks first then do Python code").

RESULTS AND DISCUSSION

(Continued on next page)



Python code for Question 2

```
file Eds Toyman Dun Options Window Help

*This program calculates the total area of a triangle and tells the user if it is a
*Right-Angled triangle" or "Not a Right-Angled triangle". The dimensions of the triangle are inputted by the user.

*Code made by Leonardo Fusser (1946995)

*Floor gramming Fundamentals

*Elab 7 (Question 2)

*Flourem Hannia

*Start of program.

import math

**Start of program.

**Start of p
```



Python code output for Question 2

Python code for Question 3

```
File Edit Format Run Options Window Help

Files program determines what quadrant the values of X & Y are located in. The values of X & Y are inputted by the user.

**Programming Fundamentals files 7 (question 3)

#Subash Randa

#Start of program.

##Start of progr
```



Python code output for Question 3

File Edit Shell Debug Options Window Help

Eython 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:\Users\Leonardo Fusser\Google Drive\Leonardo CEGEP\Vanier (Year 1, 2, 3)\Vanier (Year 1)\Vanier Fall Semester\Classes\Programming Fundamentals\Labs\My work \Lab #\PyPthon\Programming Fundamentals (Lab 7_quadrant) (Python)_Leonardo Fusser.py
Flease input the X cordinate: 6

Flease input the Y cordinate: 6

These cordinates are located in the fourth quadrant!

>>>