**Variables**

Programming Assignment

The area of a triangle is given by the formula Area = 1/2 \* Base \* Height. Using the IDLE development environment, create a Python script named t\_area . Your script must calculate the area of a triangle and display the results of the calculation. The triangle that your script must calculate the areas for has a base of 12 inches and a height of 16 inches. IDLE has both an interactive mode and a script mode. You must use the script mode to develop your script.

Your script must use (at a minimum) the following three variable names.

area - this variable will contain the results of the calculation which will be the area of the triangle.

base – this variable will contain the length of the triangle base. You must set the value of this variable to 12.

height – this variable will contain the height of the triangle. You must set the value of this variable to 16.

Solution:

#Declare a variable "base" and assign the value of 12 to it

base=12.0

#Declare a variable "height" and assign the value of 16 to it

height=16

#Calculate the area of triangle using formula: area = base \* height \* 1/2

area=base\*height\*1/2

#Display the area of the triangle

print(area)

Outcome:

Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:57:15) [MSC v.1915 64 bit (AMD64)] on win32

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

>>>

============ RESTART: C:/Users/ada/Desktop/Variables excercise.py ============

96.0

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