

PF LAB #06 TASK Sec B

Note:

The instructions should be followed strictly otherwise you will be responsible for any marks deduction. Plagiarism will not be tolerated and individuals involved will be given straight **Zero** without any investigation. Comments on each line of code is mandatory otherwise marks will be deducted. You will have to submit .py file for each question e-g q1.py, q2.py etc (use the same naming scheme)

1. Write a function which finds and returns the linear relationship between x and y. k (constant) is the slope of line. Assume k is 2.5

$$y = kx$$

2. Write a function that takes the radius and slant height of a cone and finds its area.

Call function using **keyword argument**

$$\text{Area} = \pi r s$$

3. Write a function that takes the radius and height of a cylinder and find its volume and circumference. (**import pi from library**)

Formulas

$$C = 2\pi r$$

$$V = \pi r^2 h$$

4. Write a function that takes quantity in pounds and convert it into gram and kilogram.

Reflect the concept of **required argument**

$$1 \text{ Pounds} = 0.454 \text{ kilograms}$$

$$1 \text{ Pound} = 453.59237 \text{ Grams}$$