Object Oriented Programming

Homework Assignment

In [18]: class Line(object):

####Problem 1 Fill in the Line class methods to accept coordinate as a pair of tuples and return the slope and distance of the line.

```
def __init__(self,coor1,coor2):
              def distance(self):
                  pass
              def slope(self):
                  pass
 In [ ]: # EXAMPLE OUTPUT
         coordinate1 = (3,2)
         coordinate2 = (8,10)
         li = Line(coordinate1,coordinate2)
In [20]: li.distance()
Out[20]: 9.433981132056603
In [21]: li.slope()
Out[21]: 1.6
         ####Problem 2
         Fill in the class
In [31]: class Cylinder(object):
              def init (self,height=1,radius=1):
                  pass
              def volume(self):
                  pass
              def surface area(self):
                  pass
```

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```
In [32]: # EXAMPLE OUTPUT
    c = Cylinder(2,3)

In [34]: c.volume()
Out[34]: 56.52

In [35]: c.surface_area()
Out[35]: 94.2
In []:
```