Task 1: Read data in from the provided text:

```
Python 3.7.4 Shell
                                                                              - D X
File Edit Shell Debug Options Window Help
Python 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.
>>> open("C:\lab3.txt", "r")
<_io.TextIOWrapper name='C:\\lab3.txt' mode='r' encoding='cp1252'>
>>>
                                                                                    Ln: 5 Col: 4
```

Task 2: Create a class for each shape found in the text file:

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 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.
>>> open("C:\lab3.txt", "r")
< io.TextIOWrapper name='C:\\lab3.txt' mode='r' encoding='cp1252'>
>>> class Rectangle:
    def __init__(self, l, w):
    self.l = l
        self.w = w
    def getArea(self):
        return self.l * self.w
>>> class Circle:
       def __init__(self, r):
                self.r = r
        def getArea(self):
                return self.radius**2*3.14
>>> class Triangle:
        def __init__(self, p1, p2):
                self.p1 = p1
                 self.p2 = p2
        def getArea(self):
                return self.p1*self.p2*.5
>>>
                                                                              Ln: 16 Col: 28
```

Tasks 3 and 4:

Rectangles Object and Printout

```
## Python 3.7.4 Shell - C/Users/BLACKARIEL/Desktop/Grad School/GEOG 676 Programming/Lab 3/Rect.

File Edit Shell Debug Options Window Help

Python 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.

>>> def getArea(width, height):

# calculate the area
Area = width * height

print("\n getArea is: %.2f" %Area)

>>> getArea (1, 5)

getArea is: 5.00

>>> getArea (8, 1)

getArea is: 8.00

>>> getArea is: 30.00

>>> getArea is: 30.00
```

Triangles Object and Printout

Circles Object and Printout