Task 1

```
In [ ]:  #Answer
         #Class Triangle can also be found in "Geom_Directory" > "Geom1.py"
         class Triangle(Geom):
           def __init__(self, base, height):
               self.base = base
               self.height = height
               super().__init__()

           #area method
           def area(self):
               return (self.base * self.height)*0.5
```

Task 2

Reorganize these classes as a package with one or multiple modules. Import them into another Python Notebook or Script file to test them.

```
In [ ]:  #Package/Directory = "Geom_Directory"
         #Module = "Geom1.py"
```

```
In [ ]:  #Importing local Python module into Jupyter Notebooks
         %load_ext autoreload
         %autoreload 2
         import os
         import sys
         module_path = os.path.abspath(os.path.join('../src'))
         sys.path.insert(0, module_path)
```

```
In [ ]:  #Importing module from local Python module
         from Geom1 import *
```

Testing to see if imported module works:

```
In [ ]:  #Square
         #Testing
         side = 8
         my_square = Square(side)
         my_square.print_name()
         print('Area Test 3: My area is ',my_square.area())
```

```
My name is  Bill and my color is   PURPLE
Area Test 3: My area is  64
```

```
In [ ]:  #Testing
         ##Triangle
         base = 6
         height = 7
         my_triangle = Triangle(base,height)
         my_triangle.print_name()
         print('Area Test 2: My triangle area is ', my_triangle.area())
```

```
My name is  Hussain and my color is  RED
Area Test 2: My triangle area is  21.0
```

In [ ]:
```python
##Square
side = 8
my_square = Square(side)
my_square.print_name()
print('Area Test 3: My area is ',my_square.area())
```

```
My name is  Lammar and my color is  PURPLE
Area Test 3: My area is  64
```

In [ ]:
```python
#Circle
radius = 2
my_circle = Circle(radius)
my_circle.print_name()
print('Area Test 4:  My area is ',my_circle.area())
```

```
My name is  Josh and my color is  RED
Area Test 4:  My area is  12.566370614359172
```