Using functions in modules

- Modularity suggests grouping functions together that share common theme
- Place in a single .py file
- Use import command to access

Example

```
pi = 3.14159
                          Be sure to save this code in
                          a file called circle.py
def area(radius):
    return pi*(radius**2)
def circumference(radius):
    return 2*pi*radius
def sphereSurface(radius):
    return 4.0*area(radius)
def sphereVolume(radius):
    return (4.0/3.0)*pi*(radius**3)
```

Example

```
import circle
pi = 3.0
print pi
print circle.pi
print circle.area(3)
print
   circle.circumference(3)
```

Will result in
3.0 # value from local env
3.14159 # value from file
28.27431 # uses values from file
18.84954

 The . notation specifies context from which to read values

Example

```
from circle import *
pi = 0.0
print pi
print area(3)
print circumference(3)
```

- Will result in
- 0.0 # value from local scope
- 28.27431 # uses values from file, because area not bound locally, but inherits from circle; however format allows reference as if in local scope

18.84954