FUNCTIONS

- · Reduces the amount of code
- Can be called anywhere in the notebook or cell
- Functions must be given a name
- Can contain multiple parameters or none at all
- · A parameter can have default values

```
In [13]:
def square(arg1=20, arg2=50):
    """This adds two numbers together"""
    return( arg1 + arg2)
val = square(90, 110)
type (square)
Out[13]:
function
In [15]:
def squared(num):
    return num**2
def cubed(num):
    return num**3
def quad(num):
    return num**4
v = 4
print(squared(v))
print(cubed(v))
print(quad(v))
total = squared(v) + cubed(v) + quad(v)
total
16
64
256
Out[15]:
336
In [29]:
def greet():
    """Enter the time and print appropriate greeting!"""
    time = eval(input("Enter the time: "))
    if time >= 6 and time < 12:</pre>
```

```
print("Good morning!")
        return squared(time)
    elif time >= 12 and time < 18:</pre>
        print("Afternoon!")
        return cubed(time)
    elif time >= 18 and time < 21:</pre>
        print("Good evening!")
        return quad(time)
    else:
        print("Good night!")
        return time
In [31]:
number = greet()
Enter the time: 7
Good morning!
In [32]:
number
Out[32]:
49
```