

args and kwargs

```
def greet(*args, **kwargs): #args and kwargs are just names  
    print("Hello World", args, kwargs)
```

```
greet(445, 5657, a=10)
```

```
greet()
```

Python Namespace and scope

```
x="global"
def g():
    x="enclosing"
    def e():
        x="local"
        print(x)
    e()
g()
```

Modules

A module is a file with some Python code. We use modules to break up our gigantic program into multiple files.

There are 2 ways to import modules: we can import the entire module, or specific function in a module.

importing the entire MathFun module

`import MathFun`

importing one function in the Mathfun module

`from MathFun import add`

Module vs Script

```
def sayHello():  
    print("Hello")
```

```
def sayHello():  
    print("Hello")  
sayHello()
```

Exception Handling (Syntax)

Exceptions are errors that crash our programs. We must anticipate and handle these exceptions to prevent our programs from crashing.

```
-----  
try:  
    # Some Code....  
except:  
    # Handle Exception Here  
else:  
    # Executed if no exception  
finally:  
    # Always executed
```

Raising Exception

```
x = -5
if x < 0:
    raise Exception("Sorry, no numbers below zero")
.....
x = "hello"
if not type(x) is int:
    raise TypeError("Only integers are allowed")
```