Function Arguments

Different Forms of Arguments

1. Default Arguments

We can provide a default value to an argument by using the assignment operator (=).

```
def greet(name, msg="Good Morning"):
    This function greets to person with the provided message
    if message is not provided, it defaults to "Good Morning"
    print("Hello {0} , {1}".format(name, msg))

greet("satish", "Good Night")

Hello satish , Good Night
```

```
#with out msg argument
greet("satish")
Hello satish , Good Morning
```

Once we have a default argument, all the arguments to its right must also have default values.

def greet(msg="Good Morning", name)

#will get a SyntaxError: non-default argument follows default argument

2. Keyword Arguments

kwargs allows you to pass keyworded variable length of arguments to a function. You should use **kwargs if you want to handle named arguments in a function

Example:

```
def greet(**kwargs):
    This function greets to person with the provided message
    if kwargs:
        print("Hello {0} , {1}".format(kwargs['name'], kwargs['msg']))
greet(name="satish", msg="Good Morning")
Hello satish , Good Morning
```

3. Arbitary Arguments

Sometimes, we do not know in advance the number of arguments that will be passed into a function. Python allows us to handle this kind of situation through function calls with arbitrary number of arguments.

Example:

```
def greet(*names):
    This function greets all persons in the names tuple
    print(names)

for name in names:
    print("Hello, {0} ".format(name))
```

```
greet("satish", "murali", "naveen", "srikanth")
('satish', 'murali', 'naveen', 'srikanth')
Hello, satish
Hello, murali
Hello, naveen
Hello, srikanth
```