Function Argument in and return statement

There are four types of arguments that we can provide in a function:

1. Default Arguments

2. Keyword Arguments

3. Variable length Arguments

4. Required Arguments

Default Arguments:

We can provide a default value while creating a function. This way the function assume a default even if a value is not provided in the function call for that argument.

Example:

```
def name(fname,mname="munawar",lname="Hussain"):
    print("Hello,",fname,mname,lname)
name("Hey",)
```

Keyword Arguments:

We can provide arguments with key = value, this way the interpreter recognizes the arguments by the parameter name. Hence the order in which the arguments are passed does not matter.

Example:

```
def name(fname,mname,lname):
    print("Hello,",fname,mname,lname)
name(mname="Ali",lname="kamal",fname="Ahmed")
```

Required Arguments:

In case we do not pass the arguments with a key = value syntax, then it is necessary to pass the arguments in the correct positional order and the number of arguments passed should match with actual function definition.

Example:

```
def name(fname,mname="ali",lname="ali"):
    print("Hello,",fname,mname,lname)
name("Ahmed")
```

Variable length Arguments:

Sometimes we may need to pass more argument than those defined actual function. This can be done using variable length arguments.

There are two types.

1. Arbitrary arguments

2. Keyword Arbitrary argument

Arbitrary Argument Example:

```
def name(*name):
    print("Hello,",name[0],name[1],name[2])
name("Ahmed","ahmad","kamal")
```

Keyword Arbitrary Argument Example:

```
def name(**name):
    print("Hello,",name["fname"],name["mname"],name["lname"])
name(fname="Ahmed",mname="ahmad",lname="kamal")
```

Return Statement:

The return statement is used to return the value of the expression back to the calling function.

Example:

```
def name(fname,lname):
    return"Hello,"+" "+fname+" "+lname
print(name("Munawar","Hussain"))
```

Source Code

```
def average(a,b):
    print("The average is ",(a+b)/2)
average(4,2)


def name(fname,lname):
    return"Hello,"+" "+fname+" "+lname
print(name("Munawar","Hussain"))
```

Thank You