7:28am

15th March, 2023

Functions

Syntax

fxn name

input parameter.

doc string

```
def add_three (x):
''' "Increase x by 3." ''"
    x = x + 3  # x += 3
    return x:
```

operation

output

Whenever the fxn "add_three is called, 3 is added to the "x", input parameter

☐ Operations can be performed on fxns
```
x = 2
y = add_three (x) + add_three (x) - add_three(x).
```

○ A fxn can have as many input and output as needed

* args ↔ positional arguments

** kwargs ↔ key word arguments

Allows one to pass multiple inputs

positional   Keyword

Example

```
def my_func(*args, **kwargs)
    for arg in args:
        print (arg)
    for key, value in kwargs.items():
        print (f"key: {key} value: {value}
```

positional

```
my_func (1, 2, "hello",
        a= 1, b= 2, c= 'hello")
```

Keyword

Output:

```
1
2
hello
a = 1
b = 2
c = "hello"
```