

Learn Python Function -basic

Sunday, December 03, 2017 10:24 AM

1. Use **def** key word to define a function:

```
def hello_world():  
    print("Hello,World!")
```

#call the function

Hello_world()

2. Function with parameter

```
def foo(x): # x is a function parameter  
    print("x = " + str(x))  
  
foo(5) # pass 5 to foo(). Here 5 is an argument passed to function foo.  
  
def square(x):  
    print(x ** 2)  
  
square(4)  
square(8)  
square(15)  
square(23)  
square(42)
```

3. Function can Return value

```
def sum_two_numbers(a, b):  
    return a + b # return result to the function caller  
  
c = sum_two_numbers(3, 12) # assign result of function execution to variable 'c'  
  
def fib(n):  
    """This is documentation string for function. It'll be available by fib.__doc__()  
    Return a list containing the Fibonacci series up to n."""  
    result = []  
    a = 1  
    b = 1  
    while a < n:  
        result.append(a)  
        tmp_var = b  
        b = sum_two_numbers(a, b)  
        a = tmp_var  
    return result  
  
print(fib(10))
```

4. Do it yourself:

- a. Write a function, when give a number, it will return a number which is sum of 1 to the input number:

Ex. Input 5, the return will be $1+2+3+4+5 = 15$