

PROBLEM SOLVING PROCESS

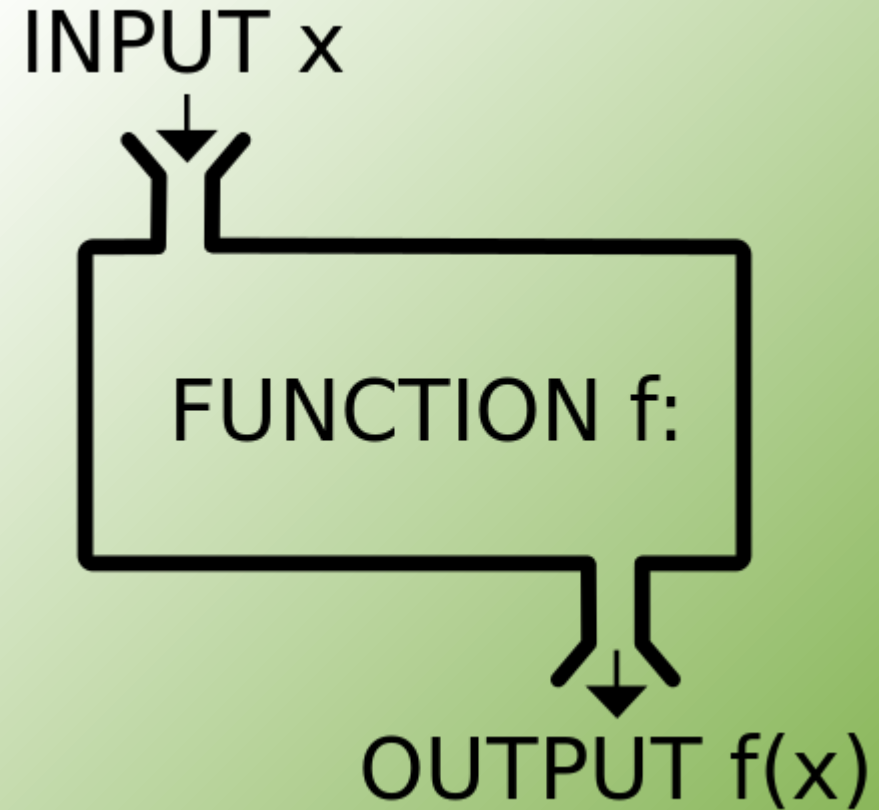
Class X
lab 7





What is a function?

Function is a group of related statements that perform a specific task.





Syntax of Function

```
def function_name(parameters):  
    """docstring"""  
    statement(s)
```



Example of a function

```
def greet(name):  
    """This function greets to  
    the person passed in as  
    parameter"""  
    print("Hello, " + name + ". Good morning!")
```



How to call a function?

Once we have defined a function, we can call it from another function, program or even the Python prompt. To call a function we simply type the function name with appropriate parameters.

```
>>> greet('Paul')  
Hello, Paul. Good morning!
```



Docstring

documentation strings (or docstrings) provide a convenient way of associating documentation with modules, functions, classes, and methods.

```
>>> print(greet.__doc__)
```

This function greets to the person passed into the name parameter

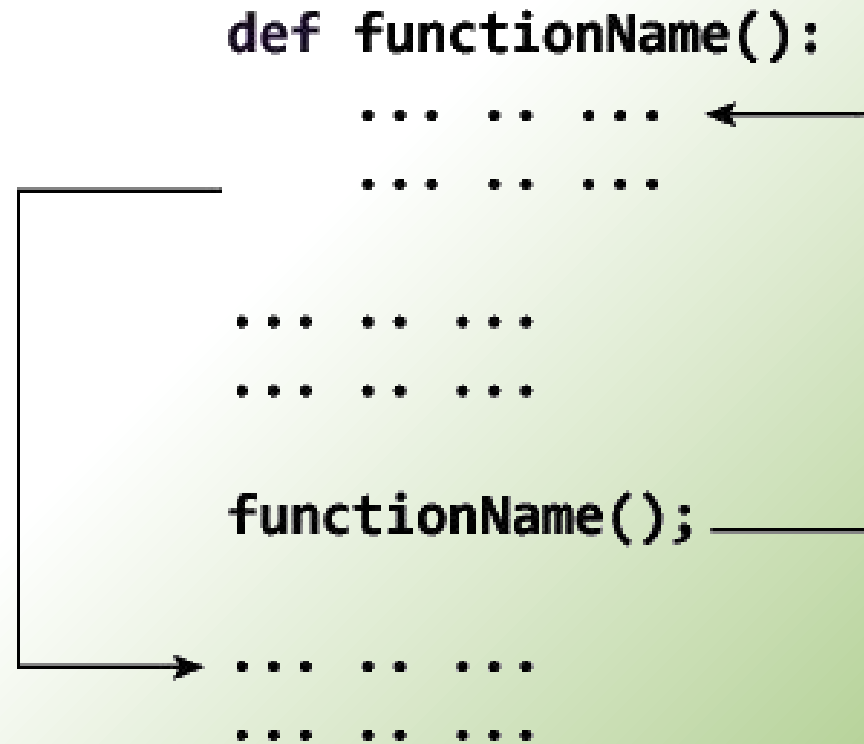


Example of return

```
def absolute_value(num):  
    """This function returns the absolute  
    value of the entered number"""  
  
    if num >= 0:  
        return num  
    else:  
        return -num  
  
# Output: 2  
print(absolute_value(2))  
  
# Output: 4  
print(absolute_value(-4))
```




How Function works ?





**Thank
you!**

