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# FUNCTIONS

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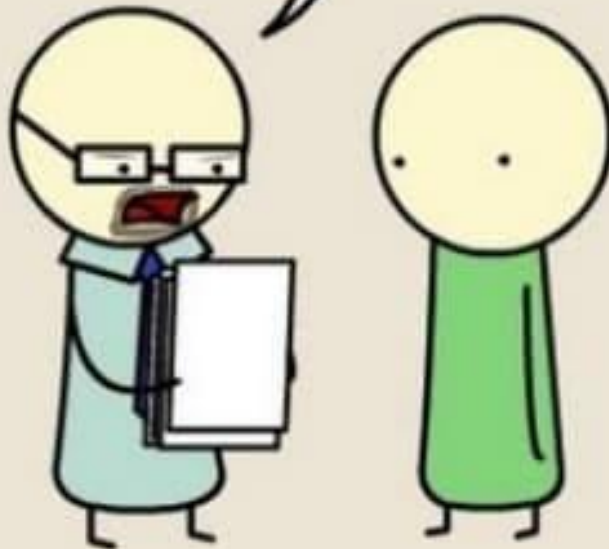


# Learning Objectives

- Purpose of function
- Functions with Arguments
- Parameter Values
- Returning Values

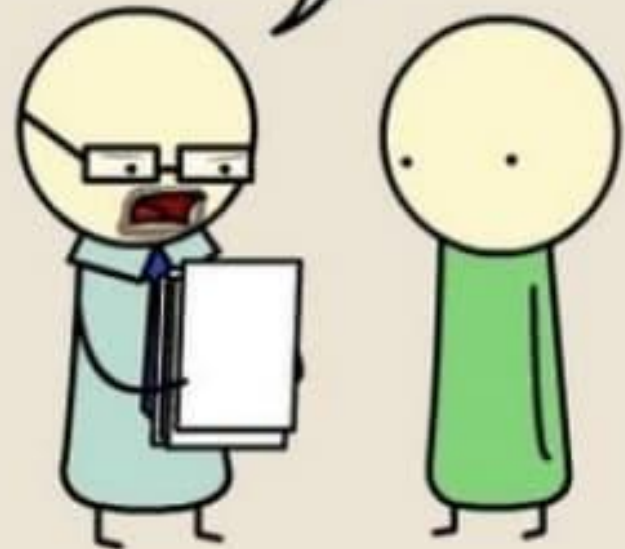
# PYTHON

THIS IS PLAGIARISM.  
YOU CAN'T JUST "IMPORT ESSAY."



# JAVA

I'M TWO PAGES IN AND I STILL  
HAVE NO IDEA WHAT YOU'RE SAYING.



# Functions

Function is a named blocks of code that is used to accomplish a specific purpose.

Information passed to a function is an argument

The information received by the function is a parameter



# Function

## Simplified Function

```
def greet ():  
    # greeting  
    print ("Hello!")
```

To call the function, it's called by name:

```
greet ()
```



# Function

- For the function to have greater use there is need to pass arguments

```
#argument pass
```

```
def greetUser (name):  
    """ "Show a custom message." """  
    print ("Hello," + name + "!" )
```

- Call Example

```
greetUser ("John")
```

# Function

- We can have default parameter

#argument pass

```
def greetUser (name = 'Zézinho'):  
    """ "Show a custom message." """  
    print ("Hello," + name + "!" )
```

- Call function

```
greetUser ("John")
```

# Function

- **Return a value**

```
def addValues (x, y):  
    """  
        takes two values and returns the sum.  
    """  
    return x + y
```

- **Call function**

```
sum = addValues (3, 5)  
print (sum)
```

# Function

- Sum with default values

```
def addValues (x = 0, y = 0, z = 0):  
    return x + y + z
```

- Call function

```
sum = addValues (3,4)  
print (sum)
```

