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FUNCTIONS



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 + "!")
```

- Welcome user

```
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):  
    #add multiple values and return the sum.  
    return x + y + z
```

- **Call function**

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

