

User-Defined Functions

What is a User-Defined Function?

- A **set of code** that a **user creates** that is used to **repeat a task**.

Function Tasks

- **DEFINE** the function.
- **CALL** the function.
- **EXECUTE CODE** inside the function.

You have already used Python **Built-in** Functions!

- `print()`
- `input()`
- `len()`
- `str()`
- `int()`
- `float()`

FUNCTION SYNTAX:

```
def function_name(arguments):
```

```
    indented block of code
```

```
    code
```

```
    code
```

#**use a descriptive** function name

#end line with **colon**

#**arguments passed**

#**into the function** to be used

#**indent** block of code

FUNCTION SYNTAX:

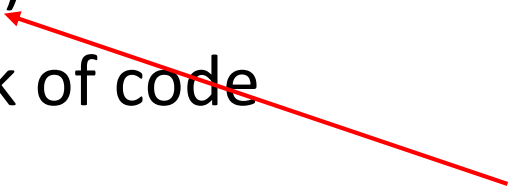
```
def function_name( ):
```

indented block of code

code

code

#no arguments passed



How do you **call a function**? –use its name

```
def adding( ):                                #define function
    num1 = 20                                  #no arguments passed to function
    num2 = 30
    sum = num1 + num2
    print("After Calling the Function:", sum)
```

adding() **#calls the function by using its name**



How do you **call a function?** –use its name

```
def gcc_address( ):                                #define function
    print("Guam Community College")                #no arguments passed to function
    print("P.O. Box 23069, GMF")
    print("Barrigada, Guam 96921")
```

gcc_address() **#calls the function by using its name**



How do you **call a function?** –use its name

```
def gcc_address( ):                                #define function
```

```
    print("Guam Community College")
```

```
    print("P.O. Box 23069, GMF")
```

```
    print("Barrigada, Guam 96921")
```

gcc_address()

#call the function 1st time

gcc_address()

#call the function 2nd time