Example 1

>>> def name\_country(name, country):

... print("What is your name:"+' '+str(name))

... print("&")

... print("Where are you from:"+' '+str(country))

...

**>>> name\_country('Tamale Simon Peter', 'Uganda')**

**Output**

**What is your name: Tamale Simon Peter**

**&**

**Where are you from: Uganda**

**>>>**

In the above example my function arguments are (‘tamale simon peter’, ‘Uganda’) this is used when I call the function.

The parameter of the function is the variable (name, country) that is in the parenthesis when defining the function and also in the print statement.

Example 2

a.

>>> first\_name = "Johnson"

>>> home\_country = "Argentina"

**>>> name\_country(first\_name, home\_country)**

**Output**

**What is your name: Johnson**

**&**

**Where are you from: Argentina**

**>>>**Here my **variables** are first\_name & home\_country; I have declared them and then passed them as arguments when I call my function name\_country.

b.  
>>> first\_name = "Mustafa"

>>> second\_name = "Hakim"

>>> results = first\_name+' '+second\_name

**>>> name\_country(results, "Dubai")**

**Output**

**What is your name: Mustafa Hakim**

**&**

**Where are you from: Dubai**

Here my value of first\_name & second\_name is passed as value argument using results as the variable to store our value.

c.

>>> name\_country('Hakim', **type('Zamunda')**)

**Output**

**What is you're name: Hakim**

**&**

**Where are you from: <class 'str'>**

**>>>**

Here I passed another function as my expression to find out the type of ‘Zamunda’

­Example 3

>>> def myNumbers (first, second):

... third = 10

... print((first) + (second) + (third))

...

>>> myNumbers(2, 2)

14

>>> def print\_number():

... print(myNumbers(5,6)-(third))

...

>>> print\_number()

21

Traceback (most recent call last):

File "<stdin>", line 1, in <module>

File "<stdin>", line 2, in print\_number

NameError: name 'third' is not defined

>>>  
Here the variable third is local to the myNumbers function if its passed as a variable outside the myNumber function, it will cause an error because local variables can’t leave their scope space

Example 4

>>> def person (name, age):

... print("my name is"+' '+str(name)+' '+"and i am"+' '+str(age)+"years old")

...

>>> person('moses', '30')

my name is moses and i am 30years old

**>>> def print\_twice():**

**... print("my name is"+' '+str(name)+' '+"and i am"+' '+str(age)+"years old")**

**...**

**>>> print\_twice()**

**Traceback (most recent call last):**

**File "<stdin>", line 1, in <module>**

**File "<stdin>", line 2, in print\_twice**

**NameError: name 'name' is not defined**

**>>>**

This is a matter of scope, a variable passed in one function can’t be used outside its scope., when its called out we get a runtime error called a NameError.