

Notes by Jpwebdevelopers

* Pass by value vs Pass by Reference

In Python language arguments can be passed by value and reference.

Pass by value :-

- It means that the value is directly passed as the value to the argument of the function.
- Pass by value is used for a copy of the variable.

Program to show the concept of call by value.

```
string = "jpweb"
```

```
def test (String):  
    string = "developers"  
    print ("Inside function:", string)
```

```
test (string)  
print ("Outside function:", string)
```

Output :-

```
Inside function: jpweb  
Outside function: developers
```

2. Pass by Reference (call by Reference):-

The call is evaluated and known as the passed value by reference.

The function can modify argument of variables and changes.

Example:-

```
---  
# Python code to demonstrate # call by Reference
```

```
def add(list):  
    list.append(50)  
    print("Inside function", list)
```

```
mylist = [10, 20, 30, 40, 50]  
add(mylist)  
print("Outside function", mylist)
```

Output:-

```
Inside function [10, 20, 30, 40, 50]  
Outside function [10, 20, 30, 40, 50]
```