

## \* 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]