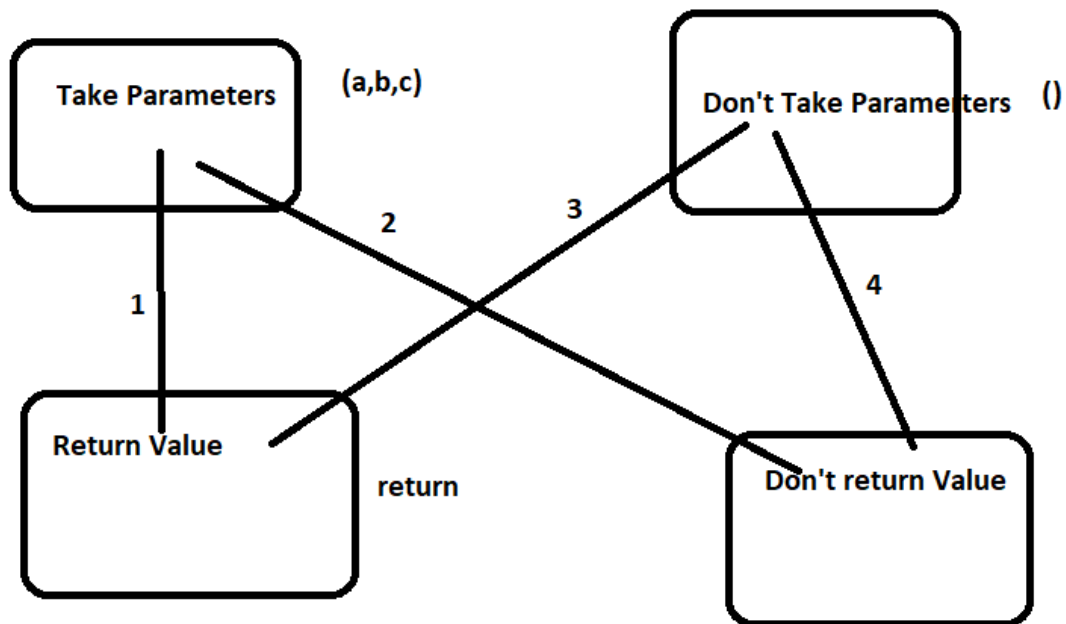# User Defined Functions

User Defined Function Types

Example:

```python
# Fuction Rect_Area

# Type 1:  Function take parameters and return value

def Rect_Area_1(length, width):
    area = width * length
    return area

# or Call -->Best

L = float(input("Enter Length: "))
W= float(input("Enter Width: "))
print("Rectangle Area = ",Rect_Area_1(L, W))
```

```python
#-------------------------------------------------------

# Type 2: Function take parameters but don't return value

def Rect_Area_2(length, width):
    area= length * width
    print("Rectangel Area = ", area)

# Calling
L = float(input("Enter Length: "))
W= float(input("Enter Width: "))
Rect_Area_2(L, W)

#-----------------------------------------
```

```python
#-----------------------------------------

# Type 3: Function Donot take parameters but return value

def Rect_Area_3():
    length = float(input("Enter Length: "))
    width = float (input("Enter Width"))
    area = length* width

    return area

# call

print("Rectangel Area =", Rect_Area_3())


#-----------------------------------------
```

```python
# Type 4: Function Donot take parameters but Donot return value

def Rect_Area_4():
    length = float(input("Enter Length: "))
    width = float (input("Enter Width"))
    area = length* width

    print("Rectangle Area = ", area )

# Call

Rect_Area_4()
```

Assignment

```python
# Assignment4: compute cylinder volume using the four types
#cyl_vol= 3.14 * radius ** 2 * Height

#Cylinder_volume_1
#Cylinder_volume_2
#Cylinder_volume_3
#Cylinder_volume_4
```