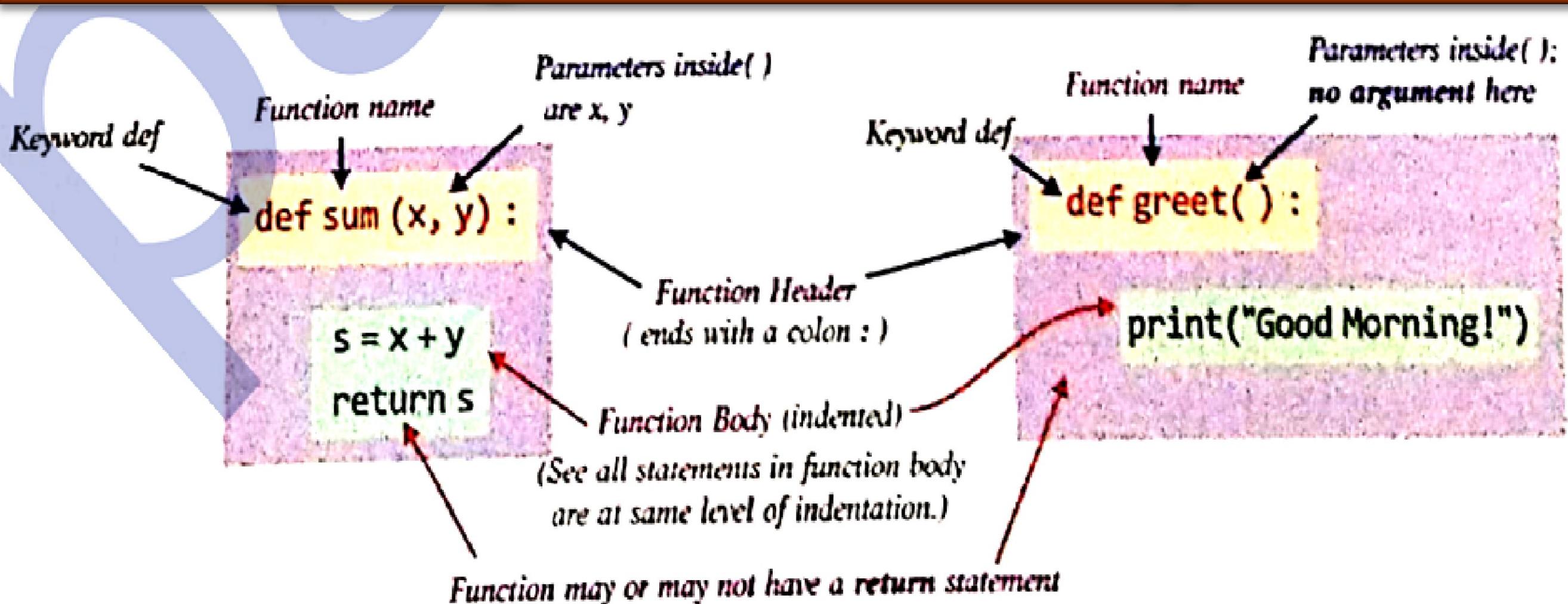


Defining Functions in Python

Defining Functions in Python



008 SIMPLE PROGRAM

```
def calcsun(x,y): 1 usage  
    sum= x+y  
    return sum
```

Defining Functions in Python

➤ Define these terms formally :

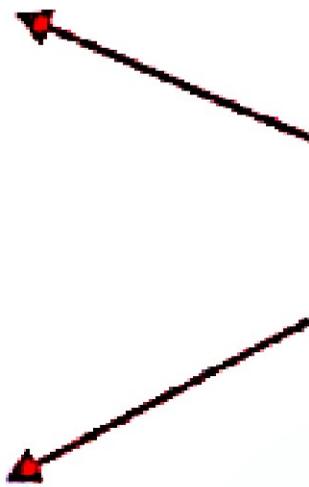
Sample Code 1

```
def sumOf3Multiples1(n) :  
    s = n * 1 + n * 2 + n * 3  
    return s
```

Sample Code 2

```
def sumOf3Multiples2(n) :  
    s = n * 1 + n * 2 + n * 3  
    print(s)
```

Both these functions are doing the same thing BUT first one is returning the computed value using return statement and second function is printing the computed value using print() statement



009 RETURNING STATEMENTS

```
def sumof3multiples1(n): 1 usage  
    s=n*1+n*2+n*3  
    return s  
print(sumof3multiples1(5))
```

Defining Functions in Python

Sample Code 3

```
def areaOfSquare ( a ) :  
    return a * a
```

Sample Code 5

```
def perimeterCircle( r ) :  
    return (2 * 3.1459 * r)
```

Sample Code 7

```
def Quote( ) :  
    print("\t Quote of the Day")  
    print("Act Without Expectation!!")  
    print("\t -Lao Tzu")
```

Sample Code 4

```
def areaOfRectangle ( a, b ) :  
    return a * b
```

Sample Code 6

```
def perimeterRectangle( l, b ) :  
    return 2 * ( l + b )
```

010 AREA OF A SQUARE

```
def areaofsquare(a): 1 usage
    return a*a
print(areaofsquare(2))
```

011 PERIMETER OF A CIRCLE

```
def perimetercircle(r): 1 usage
    return(2*3.1459*r)
print(perimetercircle(2))
```

012 QUOTE

```
def quote(): 2 usages
    print(" quote of the day")
    print("act without expectation! !")
    print("- lao tzu")
    return quote()
print(quote())
```

013 AREA OF A RECTANGLE

```
def areaofrectangle(a,b): 1 usage
    return a*b
print(areaofrectangle(a:2, b:3))
```

014 PERIMETER OF A RECTANGLE

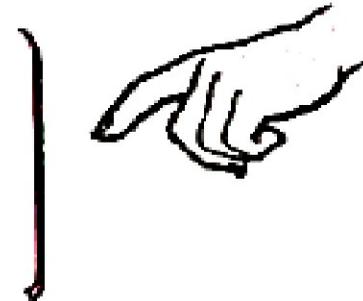
```
def perimeterrectangle(l,b): 1 usage
    return 2*(l+b)
print(perimeterrectangle(l:2, b:5))
```

Defining Functions in Python

```
def greet( ) :  
    print("Hi there!")
```

```
print("At the top-most level right now")  
print("Inside", __name__)
```

The top-level statements, i.e., the `__main__` segment of this Python program. Python will start execution of this program from the segment.



Upon executing above program, Python will display :

At the top-most level right now

Inside `__main__`



Notice word '`__main__`' in the output by Python interpreter. This is the result of statement :

```
print(..., __name__)
```

015 DEFINING FUNCTIONS IN PYTHON

```
def greet(): 1 usage  
    print("hi there")
```

```
print("at the top - most level right now ")  
print(greet())
```