

Understanding Functions

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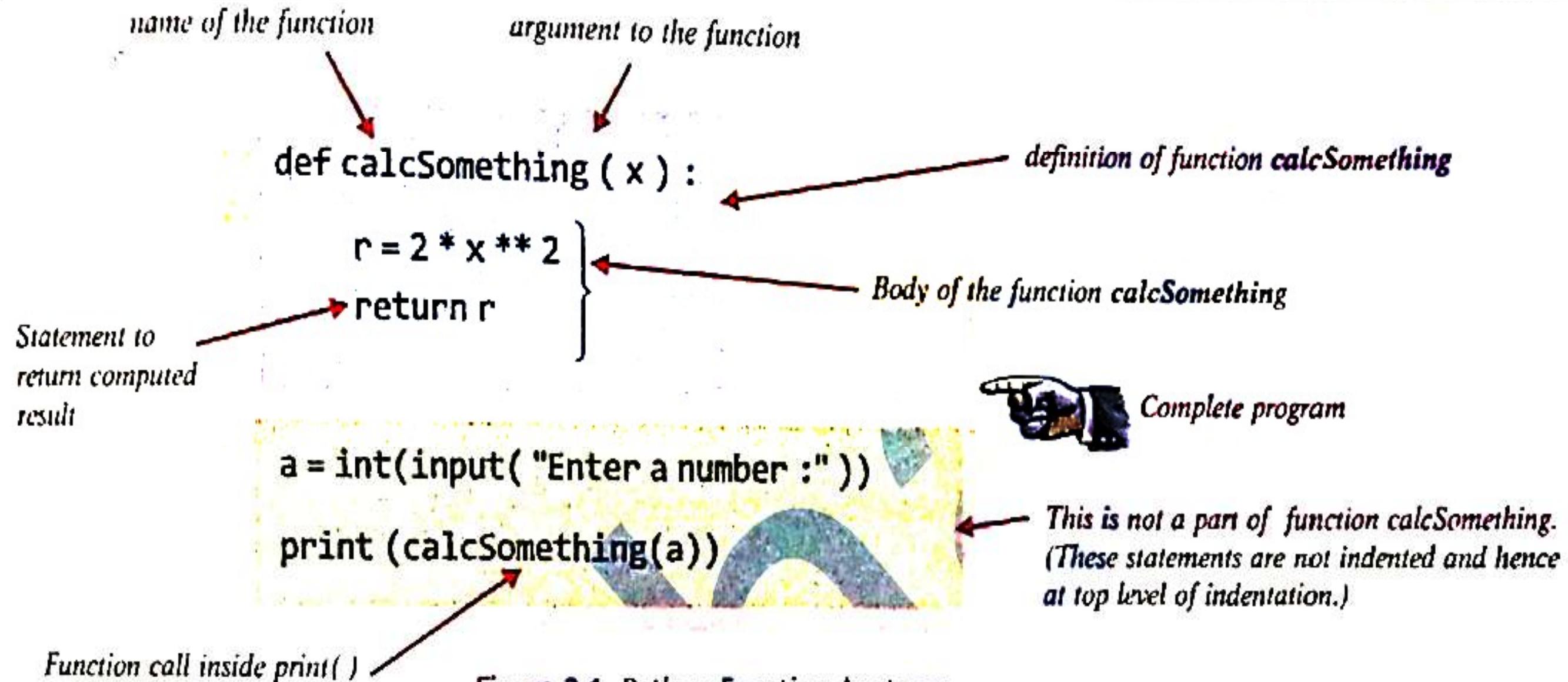


Figure 3.1 Python Function Anatomy

001 SIMPLE CALCULATIONS

```
def calc(x): 1 usage
```

```
    r=2* x * 2
```

```
    return(r)
```

```
a=int(input("enter a number"))
```

```
print(calc(a))
```

Understanding Functions

- Consider one more function definition given below:
- `def cube (x):`
- `res = x**3` `# cube of value in X`
- `return res` `# return the computed value`

002 CUBE WITH FUNCTIONS

```
def cube(x) :  
    res=x**3  
    return res  
print(cube(8))
```

003 PASSING LITERAL AS ARGUMENTS

```
def calc(x): 1 usage  
    r=x**3  
    return(r)  
print(calc(4))
```

004 PASSING VARIABLES AS ARGUMENTS

```
def calc(x): 1 usage
    r=x**3
    return(r)

num=4
print(calc(num))
```

005 PASSING INPUT AS ARGUMENTS

```
def calc(x): 1 usage
    r=x**3
    return(r)
num=int(input("Enter Number: "))
print(calc(num))
```

006 FUNCTIONS IN ANOTHER ARGUMENTS

```
def calc(x): 1 usage  
    r=x**3  
    return(r)  
print(calc(3))
```

007 FUNCTIONS INSIDE EXPRESSION

```
def calc(x): 1 usage
```

```
    r=x**3
```

```
    return(r)
```

```
print(2 * calc(3))
```