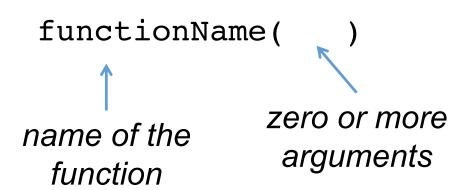
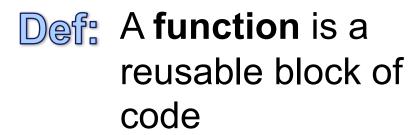




### **Built-in Functions**





**Built-in functions** exit() and type()

### Different ways to run Python Code

#### Python Interpreter

- Enter lines one by one at the prompt
- Expression outputs are printed to the screen.

```
>>> x = 3+5
>>> x
8
```

example.py file

```
x = 3+5
print(x)
```

#### Python Program

- Python evaluates each line in the file
- Expression outputs are not printed to the screen.
- Instead, anything that is printed to the screen requires a print function

**Terminal** 



```
$ python3 example.py
```

### **Print Statements**



The **print** function explicitly write the output to the terminal.

Python 2 vs. Python 3: print is a statement vs. a function!

variables

strings

ints and floats

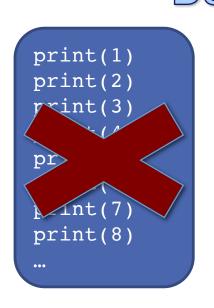
Combos of expressions (separated by commas)

empty lines

```
x = 3+5
print(x)
print('Hello World!')
print('hi' + ' ' + 'there')
print(1.0)
print(1+10)
print('Number Of Seats:',24)
print('Number Of Computers:',25)
print()
```

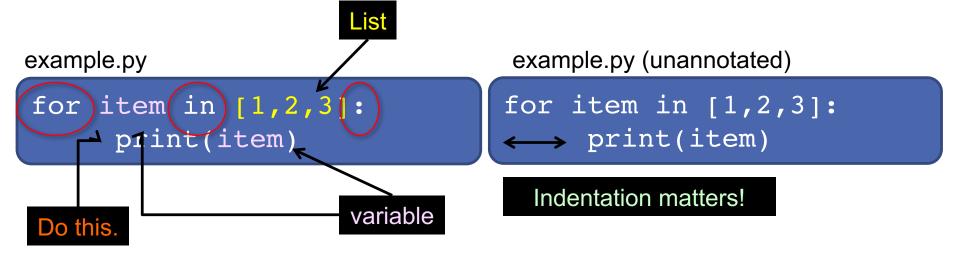
# FOR Loops

```
print(1)
print(2)
print(3)
```



statements that specify repeated execution (also called *iteration*)

"For each element in a list, do something."



### FOR Loops

```
example.py variable

myList = [1,2,3]

for item in myList:

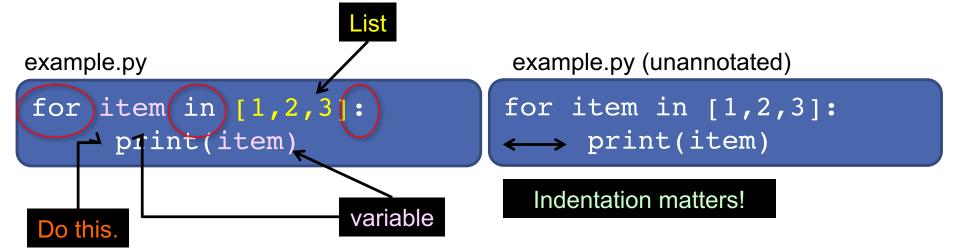
print(item)

myList = [1,2,3]

for item in myList:

print(item)

Indentation matters!
```



# FOR Loops

```
example.py
myList = [1, 2, 3]
for item in myList:
    print(item)
    print(item, 'again')
print('Done!')
```

```
example.py (unannotated)
```

```
myList = [1,2,3]
for item in myList:
 print(item)
```

Indentation matters!

