**Functions**

def greet\_user():

"""Display a simple greeting."""

print("Hello!")

greet\_user()

PassingValue

def greet\_user(name):

"""Display a simp Rajev le greeting."""

print("Hello! " + name.title() + "!")

greet\_user('')

def describe\_pet(animal\_type, pet\_name):

"""Display information about a pet."""

print("\nI have a " + animal\_type + ".")

print("My " + animal\_type + "'s name is " + pet\_name.title() + ".")

describe\_pet('Dog', 'xyz')

def describe\_pet(animal\_type, pet\_name):

"""Display information about a pet."""

print("\nI have a " + animal\_type + ".")

print("My " + animal\_type + "'s name is " + pet\_name.title() + ".")

describe\_pet('Dog', 'xyz')

describe\_pet(pet\_name='harry', animal\_type='hamster' )

describe\_pet(animal\_type='hamster', pet\_name='harry')

describe\_pet(pet\_name='harry', animal\_type='hamster')

***Default Values***

def describe\_pet(pet\_name, animal\_type='dog'):

"""Display information about a pet."""

print("\nI have a " + animal\_type + ".")

print("My " + animal\_type + "'s name is " + pet\_name.title() + ".")

describe\_pet(pet\_name='willie')

# A dog named Willie.

describe\_pet('willie')

describe\_pet(pet\_name='willie')

# A hamster named Harry.

describe\_pet('harry', 'hamster')

describe\_pet(pet\_name='harry', animal\_type='hamster')

describe\_pet(animal\_type='hamster', pet\_name='harry')

***Making an Argument Optional***

def get\_formatted\_name(first\_name, middle\_name, last\_name):

"""Return a full name, neatly formatted."""

full\_name = first\_name + ' ' + middle\_name + ' ' + last\_name

return full\_name.title()

musician = get\_formatted\_name('john', 'lee', 'hooker')

print(musician)

def get\_formatted\_name(first\_name, last\_name, middle\_name=''):

"""Return a full name, neatly formatted."""

if middle\_name:

full\_name = first\_name + ' ' + middle\_name + ' ' + last\_name

else:

full\_name = first\_name + ' ' + last\_name

return full\_name.title()

musician = get\_formatted\_name('john','hooker', 'Lee')

print(musician)

musician = get\_formatted\_name('john','hooker')

print(musician)