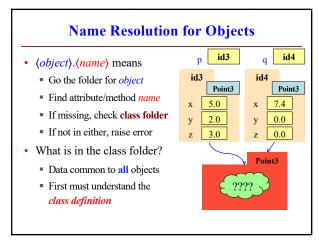
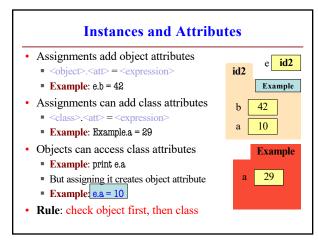


1



Goes inside a The Class Definition module, just like a function keyword class definition. Beginning of a class definition class <class-name>(object): Do not forget the colon! Specification (similar to one """Class specification""" more on this later for a function) <function definitions> to define methods ..but not often used <assignment statements> <any other statements also allowed> to define attributes Example class Example(object): Python creates "The simplest possible class."" after reading the class definition

3



class Worker(object):

"""A class representing a worker in a certain organization summary

Instance has basic worker info, but no salary information.

Attribute lname: The worker last name Description

Invariant: lname is a string Invariant

Attribute ssn: The Social Security number

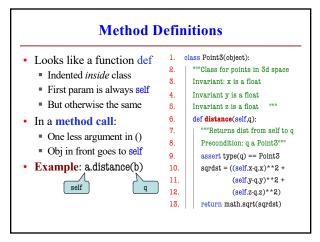
Invariant: ssn is an int in the range 0.999999999

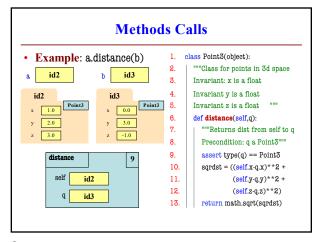
Attribute boss: The worker's boss

Invariant: boss is an instace of Worker, or None if no boss"""

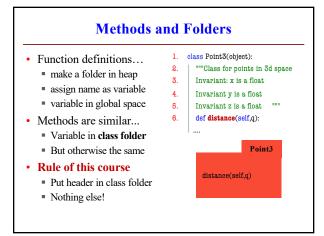
5 6

1





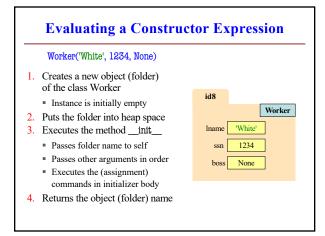
7 8



Special Method: __init__ don't forget self Called by the constructor del __init__(self, n, s, b): ""Initializes a Worker object Worker Has last name n, SSN s, and boss b 'White' Precondition: n a string, 1234 s an int in range 0..999999999, b either a Worker or None. "" None self.lname = n self.ssn = s $self_boss = b$ use self to assign attributes

10

9



Making Arguments Optional class Point3(object): We can assign default values 1 """Class for points in 3d space to __init__ arguments 2. Invariant: x is a float 3. ■ Write as assignments to 4. Invariant y is a float parameters in definition 5. Invariant z is a float Parameters with default values are optional def __init__(self,x=0,y=0,z=0): 7. Examples: """Initializes a new Point3 p = Point3() #(0,0,0)9. Precond: x,y,z are numbers""" p = Point3(1,2,3)# (1,2,3) 10. self.x = xp = Point3(1,2) # (1,2,0) 11. self.v = vp = Point3(y=3) # (0,3,0) 12. self.z = zp = Point3(1,z=2) # (1,0,2)13.

11 12

2