1. What is the difference between a class and an object? pyton is language with object but class mean is tool for make object

2. What are some other names for the term instance variable? member variable , field , attribute

3. What is another name for the term method?

method is mean function in other function or object

4. What symbol associates an object with a method invocation?we can go in to the object with dot (.) for example math.sqrt() going in to the sqrt in math with dot

5. How does a method differ from a function?

method is a function in the object or class but function is just a function

6. What method from the string class returns a new string with no leading ortrailingwhitespace?

its method name trim()

7. What function returns the length of its string argument? the len() function

8. What type of object does the open function return? the open() function

9. What does the second parameter of the open function represent?

10. Write a program that stores the first 100 integers to a text file named numbers.txt. Each numbershould appear on a line all by itself.

11. Complete the following function that reads a collection of integers from a text file named numbers.txt.Each number in the file appears on a line all by itself. The function accepts a single parameter, a stringtext file name. The function returns the sum of the integers in the file.defsumfile(filename):# Add your codehere . . .

12. Provide the syntactic sugar for each of the following methods of the Fraction class:

(a) \_\_sub\_\_

(b) \_\_eq\_\_

(c) \_\_neg\_\_

(d) \_\_gt\_\_

13. How is using a Turtle object from Python’s Turtle graphics module different from using the freefunctions; for example, t.penup() versus penup()?

15. Does Python permit a programmer to change one symbol in a string object? If so, how?

16. What would be the consequences if a turtle.Turtle object were immutable?

17. In the context of programming, what is garbage?

18. What is garbage collection, and how does it work in Python?

19. Consider the following code:

a = "ABC"

b = a

c = b

a = "XYZ"

(a) At the end of this code’s execution what is the reference count for the string object "ABC"?

(b) At the end of this code’s execution is b an alias of a?

(c) At the end of this code’s execution is b an alias of c?

tip(i dont in class and i dont know season object so i will complet this exersize soon)