1. What are the differences between operators and values in the following?

\* Arithmetic Operator (multiplication)

'hello' String

-87.8 Float

- Arithmetic Operator(Subtraction)

/ Arithmetic Operator(Division)

+ Arithmetic Operator(Addition)

6 Integer

2. What is the difference between string and variable?

Spam Variable

'spam' string

3. Describe three different data forms.

Integer – denotes numeric values with an absence of decimal point.

Float - denotes numeric values with presence of decimal point.

Complex – represented as real part + imaginary part,j

4. What makes up an expression? What are the functions of all expressions?

Expressions represent something, like a number, a string, or an instance of a class. Any value is an expression!

Anything that does something is a statement. Any assignment to a variable or function call is a statement. Any value contained in that statement in an expression.

5. In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

An expression evaluates to a single value. A statement does not.

6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

The bacon variable will be 22. The bacon + 1 expression will not reassign the value to bacon because its not the correct assignment. (bacon=bacon+1 or bacon+=1)

7. What should the values of the following two terms be?

'spam' + 'spamspam' =spamspamspam

'spam' \* 3 =spamspamspam

8. Why is it that eggs is a true variable name but 100 is not?

Variable names cannot begin with a number

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

int(), float(), and str()

10. What is the error caused by this expression? What would you do about it?

'I have eaten ' + 99 + ' burritos.'

Error: str and int cannot be concatanated

‘I have eaten’+str(99)+’burritos’

Or (f”I have eaten 99 burritos”)