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

\* This is used for multiplication

'hello' is basically an sting, will print ‘hello’

-87.8 is a float number

- used for subtraction

/ used for Division

+ used for Addition

6 It is an integer

2. What is the difference between string and variable?

spam – We can store a value in a variable and can be used for mathematical operation.

'spam'- A string is usual word or information can be stored in a variable.

3. Describe three different data forms.

String

Float

Integer

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

An expression is a combination of values, variables, operator etc. “Print” function is used in python for all expression.

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

Here we are storing value “10” is a variable “spam” can be called as declaration. Expression could be print(spam) will show us the declared value in the variable.

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

bacon = 22

bacon + 1

It will contain 22 only, because we are assigning 22 as value of bacon and then we are adding +1 in it. So bacon will contain its initial value which is 22.

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

'spam' + 'spamspam'

'spam' \* 3

In both the cases value will be “spamspamspam”.

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

Because an integer only cannot be a variable. Variable always starts with strings.

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

Floating-point number.

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

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

99 is an integer where others are strings. So it cannot be concatenated using + only. We can put “99” to concatenate it.