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

\* multiply int

'hello' string data type

-87.8 float data type

- subtraction

/ division

+ addition

6 int data type

2. What is the difference between string and variable?

spam : this is variable and use for assignment

'spam' : string assigned to any variable

3. Describe three different data forms.

Integer, float, string, list, set, tuple, dictionary, complex

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

Expression are generally use to represent the values. operator, conditional expression, identifiers, atoms (::) etc are kind of expression. Expression can be used to compare, iterate, assign, identify, comprehend the values.

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

In the statement we declare variable as spam and assign the value 10 to it and to assign the value we use = as expression.

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

bacon = 22

bacon + 1

Ans : output 23

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

'spam' + 'spamspam' : Output 'spamspamspam'

'spam' \* 3. Output : 'spamspamspam'

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

Variable Name can not be an integer or a variable name can not start with an integer.

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

Integer : int()

Float : float()

String : str()

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

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

TypeError: can only concatenate str (not "int") to str

To avoid the error we will convert the integer value(99) to string by keeping it inside as “ 99 “.