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

\* : Multiplication

'hello' : String

-87.8 : Float

- : Subtraction

/ : division

+ : Addition

6: Integer

2. What is the difference between string and variable?

spam

'spam'

Ans: when we declare a variable, we simply put the variable name for example xyz without inverted commas. Basically when we create a variable then a location is created to store the value for that particular variable. Whereas string is the type of value that can be assigned to the variable. We always put string in “’ or ‘’ else it will throw an error.

3. Describe three different data forms.

Integer : Integer is the data form that contains numeric value both negative, positive and zero. No decimal value.

String : String includes all the alphabetical value, special characters, spaces etc. In short whatever we can put inside inverted comas, will be referred to a string.

Float: Float contains all the decimal numeric values.

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

An sequence of operands and operations make up an expression. Below are the types of expression which hold different functions of expression:

1)List comprehension: Generates the value of a list

2)Dictionary Comprehension

3)Generator expression

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

Declaration means writing a variable with its type and value whereas expression evaluates a value.

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

bacon = 22

bacon + 1

Ans: 22

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

'spam' + 'spamspam'

'spam' \* 3

Ans: spamspamspam

spamspamspam

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

Ans: A variable name has below rule:

* It can be completely build of alphabets
* It can be alphanumeric, but never only 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?

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

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

Ans: We cannot add a string value and an integer value, that’s something which will cause concatenation error