1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\* - expression

'hello' - values

-87.8 - values

- - expression

/ - expression

* - expression

6 - values

2. What is the difference between string and variable?

String is a group of characters and data type which can be stored in to a variable.

Variable is a memory location where we can store any type of data i.e. int, float, string, list, dict

3. Describe three different data types.

i) int – which can hold integer value all -ve to all +ve numbers we can store in this data type

ii) float – which can hold all float values for eg. 3.5 , -7.6

iii) string – all alphabets with some special characters can be stored in this data type within double quotes or single quotes

4. What is an expression made up of? What do all expressions do?

Expression are made up of variable and some special character which will evaluate the variable value and return results

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

Statement is used to assigned value to a variable and expression produce a value by evaluating d expression and return value.. so we can say expression can be passed to any function but statement can not be passed to any function as an arguments..

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam'

'spam' \* 3

Ans - spamspamspam

8. Why is eggs a valid variable name while 100 is invalid?

You can not create any variables name including all number in it..

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

Int(), str(), float()

10. Why does this expression cause an error? How can you fix it?

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

Ans – string is concatenated to an int which is not possible we need to convert int into string..

‘I hve eater’+str(99)+’ burritors’