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.

\* -- MATHEMATICAL OPERATOR

'hello' - STRING

-87.8 – FLOATING VALUE

- -- MATHEMATICAL OPERATOR

/ -- MATHEMATICAL OPERATOR

* -- MATHEMATICAL OPERATOR

6 -- INTEGER

2. What is the difference between string and variable?

A string is a Datatype, is an ordered sequence of characters & can be enclosed within single quotes or double quotes. Ex: Str = “Python”

A variable represents a memory location where some data can be stored. Ex: Str = Python

3. Describe three different data types.

1) Int Data type: Integers include zero, all the positive whole numbers, and all the negative whole numbers.

2)Float Data Type: this represents numbers with the decimal point

3) Complex Data Type: this represents both real and imaginary parts

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

Expressions are combination of objects & operators, which results in values

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

Statement will not evaluate a value, expression will evaluate a value

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

bacon = 22

bacon + 1

bacon+1 is not assigned to any variable, so it needs to be assign like: bacon = bacon+1

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

'spam' + 'spamspam'

'spam' \* 3

Output for both is same - spamspamspam

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

Variable name should not be a number. So, 100 is invalid

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

int () – Integer

float () – floating point number

str () - String

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

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

Only string can be concatenated not the number. So, it can be written as:

'I have eaten ' + str (99) + ' burritos.'