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' Value

-87.8 Value

- Expression

/ Expression

* Expression

6 Value

2. What is the difference between string and variable?

String: It is a type of data type in python. It is the collection of one or more of charterers.

Variable: It is the name of the container which contains the value.

3. Describe three different data types.

Numeric: It represent data which has numeric value. E.g: Int, float, complex

Set: Set is a collection of unordered data type. It contains iterable, mutable and non-duplicate elements

Sequence: It is an ordered collection of data type. E,g: List, Tuple etc

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

Expression is an combination of operators and operands. They are executable and yield values.

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

Statement represent some action or command whereas expression yield result/values.

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

bacon = 22

bacon + 1

The value of bacon remain same i.e 22

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

'spam' + 'spamspam'

'spam' \* 3

Both terms will give ‘spamspamspam’ as result

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

Because variable name cannot start with a numeric character/number

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

3 Functions:

Int()

float()

Str()

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

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

Because the expression is trying to concatenate string with int data type (99 being int). We can fix the expression by putting 99 within quotes “99”