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?

Variable is a location/container where the data is stored in memory.

String is a type of data which will be stored in Variable.

3. Describe three different data types.

Integer, float, string, list, tuple

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

Expression is a combination of operations and values which stores the result to a single variable.

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

Expression can be considered as logical line of code which performs some calculations like spam=spam+10, whereas statement is used to assign a value to a variable like spam=10

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

bacon = 22

bacon + 1

bacon contains 22, as bacon+1 is not reassigned again to the variable bacon.

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

'spam' + 'spamspam'

'spam' \* 3

Both will return ‘spamspamspam’

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

eggs is valid variable name whereas 100 is not valid because as per the rules of variables, variable name should not start with numbers but can start with the alphabetic letters

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

int(), float(), str()

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

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

‘I have eaten’ + ‘99’ + ‘burritos.’

Or

‘I have eaten’ + str(99) + ‘burritos.’