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/ operator

'hello' : value

-87.8: value

- : expression/operator

/ : expression

* : expression/mathematical operator

6 : value

2. What is the difference between string and variable?

Variable: It is the memory location where the value can be stored

Ex: x=10

String: A type of information you would store in a variable with single/double quotes

Ex: x =”ineuron”

3. Describe three different data types.

Strings, Lists, Integer, Floats, Boolean, Tuples, Dictionaries

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

Expression is made up of values, variables, operators. All Expressions need to be evaluated

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

A statement is an instruction that the python interpreter can execute. Ex: while, for, if etc

An expression is a combination of values, variables, and operators. It will be evaluated

Ex: 2+2,4 etc

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

bacon = 22

It contains 22 which is an integer

bacon + 1

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

'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

Variable name should start with a letter. It may also have the numbers but not at the beginning

Eggs, Eggs1: Valid

100 : Invalid

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

Type function

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

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

It is only possible to concatenate str(not int) to str.