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 is an in-built function in python while variable is a container storing /holding values in dataset in python.

3. Describe three different data types.

**String:** is collection of characters/alphabets held together by use of single, triple or double quotes' e.g. “1,2,3,4”, "goat" ,' i like the ineuron teaching style'

**Tuple:** is a data type that is ordered and immutable/ can't be altered. Marked by ()

**List:** is mutable data type, can be modified, is ordered can hold any type of data in it including another set of list .

**4. What is an expression made up of? What do all expressions do?** They represent values.

Made up of operators(+,-,\*<> )among others in addition to numbers and variables

**5. This assignment statements, like spam = 10. What is the difference between an**

**expression and a statement?**

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

bacon = 22, gives 22

bacon +1 gives 23

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?

A variable can take any name(egg) but not a value. 100 is a number which is a value hence can’t qualify to be a variable.

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

10**. Why does this expression cause an error?** How can you fix it? 'I have eaten ' + 99 + ' burritos

TypeError: can only concatenate str (not "int") to str

**How can you fix it?** Add quotes on the 99,after executing, the output is I have eaten 99 burritos.

'I have eaten ' + "99" + ' burritos'