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.

\*

'hello'

-87.8

-

/

6

**Solution: Values: 'hello', -87.8, 6 and Expressions: \*, -,/,+**

2. What is the difference between string and variable?

**Solution: String is a type of data and variable are used to store a data**

3. Describe three different data types.

**Solution: Three different type of data are string, integer and floating etc.**

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

**Solution: Expression is made up of mathematical operator. All expressions are used to do certain mathematical task and yields to a value.**

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

**Solution: Expression yields to a value i.e. ‘iNeuron’\*2 = ‘iNeuroniNeuron’ and statement use to do action e.g. Boolean statement, replace, assignment statement, print statement etc**

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

bacon = 22

bacon + 1

**Solution: 22**

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

'spam' + 'spamspam'

'spam' \* 3

**Solution: 'spamspamspam' and ‘spamspamspam’**

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

**Solution: variable name must start with string. Hence, eggs is valid variable name while 100 is not.**

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

**Solution: int, float and str**

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

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

**Solution: we can’t add heterogeneous kind of data. If we convert the numeric data 99 into string with putting 99 into double quote (i.e. “99”) then we can do the concatenation operation**