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?

A Variable is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with " "

Eg String x ="Welcome to iNeuron"

X is the Variable, and we declared it as a String, use the single = to assign the text to it.

3. Describe three different data types.

1 Integers – This value is represented by int class.

It contains positive or negative whole numbers (without fraction or decimal).

In Python there is no limit to how long an integer value can be.

2 Float – This value is represented by float class.

It is a real number with floating point representation.

It is specified by a decimal point. Optionally,

the character e or E followed by a positive or negative integer may be

appended to specify scientific notation.

3 String - In Python, Strings are arrays of bytes representing Unicode

characters. A string is a collection of one or more characters

put in a single quote, double-quote or triple quote.

In python there is no character data type, a character is a string of

length one. It is represented by str class.

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

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

bacon + 1

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

'spam' + 'spamspam'

'spam' \* 3

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

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.'