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.

\* - operator expression

'hello'- String value

-87.8- float value

- :- operator expression

/ - operator expression

* - operator expression

6 – operator expression

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 ="HELLO 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.

Tuple : It is immutable data type similar to list . Use to store different types of data. Data is separated by commas. Data is stored in round brackets in tuple. For eg : tp=(1,2,3,4)

List : It is mutable type of data type . Use to store different types of data. Data can be changed at any point of time in the list. Data is stored in square brackets in List. For eg : l=[1,2,34,5]

Set : Set is on of the 4 built-in data type in python including tuple, list and Dictionary. A set is a collection which is unordered, unchangeable, and unindexed .Data is stored in curly brackets in set . For eg : - Fruits = {“apple”, ”banana”, “mango”, “grapes”}

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

Expression is made up of variables, values like int, float, string ,etc also called as operands and operators. For eg: - sum=a+b

Expression do mathematical and logical operations on operands and result the output in a variable.

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

A statement performs some action such as printing values, looping, or if statement. On the other hand, expressions also produce values and we can assign these values to new variables.

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

bacon = 22

bacon + 1

bacon contain 23

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

'spam' + 'spamspam'

'spam' \* 3

Both terms will give

‘spamspamspam’

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

Because Variable name cannot be start with a digit.

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

The int() , float() , and str( ) functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

Because 99 is an integer and other values are string . We can give inverted commas to 99 by making it ‘99’ we can fix it.