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

'hello' -STRING

-87.8 - VALUE

- OPERATOR

/ -OPERATOR

* -OPERATOR

6 -VALUE

2. What is the difference between string and variable?

- A string is a set of characters in a certain order enclosed within single or double quotes whereas variable is an entity whose value varies as per its implementation.

3. Describe three different data types.

- Numeric data type- in this data type, numeric data values are represented.

- Boolean data type- in this type of data type, ‘true’ or ‘false’ can be implemented.

- Dictionary- in this, key:value pair is/are stored.

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

- Expression is a combination of operators and operands. Expressions are used to evaluate and produce a desired output value.

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

- In an expression there is some value produced as output whereas a statement does execute a specific instruction.

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

bacon = 22

bacon + 1

* bacon=23

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

'spam' + 'spamspam'

'spam' \* 3

* both these would produce the same output, i.e- ‘spamspamspam’

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

- Eggs is a valid variable name while 100 is invalid because a variable name cant start with a number.

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

- int(), float() and str() function 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.'

* This expression causes an error because only same data type expressions can be concatenated. In this expression 99 is of int type but the other two parts of the expression are str.