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 data type which is written in between double quotation (e.g.: “str”, “boy”) whereas variable is a container that can have any value such as integer, string, float, etc (e.g.: x = 5, y = “girl”, z = 8.7).

3. Describe three different data types.

🡪The three different data types are as follows:

* Integer: This is a data type which holds integer values (Zero, positive numbers and negative numbers without decimal values). E.g.: 56, 3, 8, 9, etc.
* String: This is a data type which contains list of characters enclosed in between double quotations. E.g.: “Python”, “iNeuron”, etc.
* Float: This is a data type which holds decimal values. E.g.: 4.5, 6.0, 8.234, etc.

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

🡪An expression is made up of operators and operands. An expression interprets some other value.

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

🡪Expressions can be assigned or used as operands, while statements can only be declared.

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

bacon = 22

bacon + 1

🡪After running this code, the variable will contain 22.

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?

🡪This is because a variable name can’t start with a number(though it can have a number in between). A variable name must always start with A-Z, a-z or \_.

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

🡪The functions that can be used to get integer, floating-point number, or string are int(), float() and str() respectively.

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

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

🡪This expression causes an error because the expression tries to concatenate an integer with strings. We can fix it by enclosing the integer 99 within single quotations(‘99’).