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.

\* Ans- Mathematical Operator

'hello' Ans- String

-87.8 Ans-Integer

- Ans- Mathematical Operator

/ Ans- Mathematical Operator

* Ans- Mathematical Operator

6 Ans- Integer

2. What is the difference between string and variable?

For any variable used there is a value assigned. But for string there is no value assigned to it; however string can be a value which can be assigned to a variable

E.g a= “iNeuron”

In the above example ‘a’ is a variable for which a string value is assigned “iNeuron”

3. Describe three different data types.

Ans. Three different data types are

1. Numeric- The data type which is a number like -9,-8,3.3,4,7 etc are called Numeric data type it can be floating value or an integer value.
2. String – The data types which are made of characters and do not hold any quantitative value called strings Ex: ‘abcd’, ‘et’, ‘AI’
3. Boolean- The Boolean data types give the decision. The decision output can either be True or False.
4. What is an expression made up of? What do all expressions do?

Python expressions only contain identifiers, literals, and operators. So, what are these?

Identifiers: Any name that is used to define a class, function, variable module, or object is an identifier.

Literals: These are language-independent terms in Python and should exist independently in any programming language. In Python, there are the string literals, byte literals, integer literals, floating point literals, and imaginary literals.

Operators: In Python you can implement the following operations using the corresponding tokens.

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

Ans: An expression always returns a value but a statement does not return a value.

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

bacon = 22

bacon + 1

Ans: 23

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

'spam' + 'spamspam'

Ans: 'spamspamspam'

'spam' \* 3

Ans. 'spamspamspam'

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

Ans. 100 is absolute value which is quantified; while eggs can hold any value given to it.

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

Ans. To get Integer function is int

To get Floating point number is float()

To get string str()

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

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

Ans. 99 is an integer data type the other two are in string hence it causes an error by converting 99 into string data type this error can be eliminated.