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.

\* = This is the expression

'hello' = This is the value

-87.8 = Value

- = Expression

/ = Expression

* = Expression

6 = Value

2. What is the difference between string and variable?

Ans: Variables = variables are symbol that we can store the data in program. We can think of them as an empty box that we fill with some data or value.

For example: x = 5 , Here ‘x’ is variable

Y = “mohit” , here ‘Y’ is variable

String = String are data, so we can use them to fill up a variable.

For example = “ iNeuron “ , “Data scientist”

3. Describe three different data types.

Ans:

Data type = Data types are used to define the type of a variable. It define what type of data we are going to store in a variable.

Type of data types:

1. String = Sequence of characters. digit, or symbols – always treated as text.

For example: hello, ineuron etc

1. Integers= Numeric data type for numbers without fractions.

For example: 1,2,3

1. Floating number = Numeric data type for numbers with fractions.

For example: 100.55, 36.98

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

Ans:

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

Ans = 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans = The value should be same i.e., = ‘spamspamspam’

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?

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

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

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

Ans = This expression found in error because both string and integer are not concatenate in program. only either string or either integer value concatenate each other.