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' - > String

-87.8 ->Float

- -> Expression

/ -> Expression

* -> Expression

6 -> integer

2. What is the difference between string and variable?

Variables store information in a program. Ex: a=10 here a is variable

A string is a type of value that can be stored in a variable. A string is made up of characters, and can include letters, words, phrases, or symbols. a=’Ineuron’

3. Describe three different data types.

Integer- integer can store only numerical values.,

Float - The **float** type in Python represents the floating point number. Float is written with a decimal point dividing the integer and fractional parts. For example, 97.98, 32.3+e18, -32.54e100 all are floating point numbers

String: A string is a type of value that can be stored in a variable. A string is made up of characters, and can include letters, words, phrases, or symbols

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

Expression is a combination of variables, operations and values that yields a result value. An expression is a statement that returns a value.

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=23

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?

Variable name cant be just numbers it can be a combination of string and numbers and few special charecters but variable name cant start with number

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

Int()->To get integer,float()->to get floating point number,str()->for string value

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

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

It will generate: TypeError: can only concatenate str (not "int") to str

To get answer we should type cast 99 as string :like’99’ or str(99)