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?

A- String is a text type of value which typically contains text under quotes.While variable is container which can store any type of value of any datatype.

3. Describe three different data types.

A- Integer – It is numerical data type. Which contains whole numbers both positive and negative numbers like 5,-78,9 etc

Float – It is numerical data type with decimal points.It contains numbers with decimal points like 2.0 , 5.2, 0.0555 etc

List – It is a sequence data type. It contains n number of elements of any data type.

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

A - expression contains operators and operands. It is used to make calculations.

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

A- Assignment statements means storing a value into a variable . While expressions are generally use to calculate a value.

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

bacon = 22

bacon + 1

A – 22 . Because the variable bacon was not updated with the below mentioned expression.

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

'spam' + 'spamspam'

'spam' \* 3

1. 'spam' + 'spamspam'--- spamspamspam

'spam' \* 3 ------ spamspamspam

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

A- eggs is valid variable because it is not a value in python, while 100 is a numerical value which cannot be assigned with another value.

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

A- int(value)

float(value)

str(value)

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

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

1. This expression is trying to concatenate two strings and a number value. Hence this will cause an error. In order to fix it we have change the numerical value to string.

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