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 a datatype where as Variable stores data.

3. Describe three different data types.

Integer

Float

String

List

Tuple

Set

Dictionary

Boolean

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

An expression is a combination of operators and operands.

They are used to do basic calculations or comparisons.

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

 Expression is a combination of values and other things like functions, operators which finally evaluates to a certain value.

Statement executes an instruction. It can be anything. It gets compiled.

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

bacon = 22

bacon + 1

Ans = 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?

A number can not be a variable.

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

Int(),float(),str()

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

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

Ans- We can only concatenate strings with string. 99 is an integer where as rest all are string.

Solution - 'I have eaten ' + “99” + ' burritos.'