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.

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'hello' -> value

-87.8 - +/ 6 -> expression

2. What is the difference between string and variable?

String is a data type and variable is identifier to store value of any data type

3. Describe three different data types.

String – collection of one or more characters put in a quotes

List – ordered collection of elements

Boolean – true or false

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

Expression is combination of operators and operands, expression are evaluated as per the order of operators

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

Expression will always produce some values when evaluated, statements can be anything which is a line in python code

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

bacon = 22

bacon + 1

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 names cant start with numbers

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

Int(), str(), float()

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

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

We cant add string and integer , we have to change 99 to str for the operation to work

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