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.

\* - Multiplication operator

'hello' - Value

-87.8 - Value

- - Operator

/ - Operator

* - Operator

6 - Value

2. What is the difference between string and variable?

String is an array of characters/symbols. Variable is a placeholder for various type of data used in programming.

3. Describe three different data types.

Int, float, str, Boolean, list, dictionary etc.

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

Arithmetic, logical or bit operators make expression. They yield some value.

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

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?

Variable names must start with alphabets or underscore. They can contain numerals but not at start of the name.

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

Int(var),

float(var),

str(var) will respectively yield integer, float and string versions of value of variable var

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

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

It tries to add an integer to string without first converting it to string type.