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 data type while variable is a container that can store various types of data types

3. Describe three different data types.

String: It is a collection of characters which is passed in either single, double or triple quotes

Integer: It is a number without a decimal point

Float: It is a number with decimal point

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

Expression is made up of values and operators. Expression will operate on the values and will give a result

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

Expression’s executes a result while statement’s dont

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

bacon = 22

bacon + 1

bacon will still have 22 and we have not assigned the new expression back to the variable

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

'spam' + 'spamspam'

'spam' \* 3

Both will have same result ‘spamspamspam’

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

Variables can’t have names starting with a number

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

Int(value), float(value), str(value)

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

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

Because string and integer can’t be operated using + operator

To fix this we can use any of the following ways:

'I have eaten ' + ‘99’ + ' burritos.'

'I have eaten ' + str(99) + ' burritos.'