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.

\* - Mathematical operator

'hello' - String

-87.8 - Integer

- - Mathematical operator

/ - Mathematical operator

+ - v

6 - Integer

2. What is the difference between string and variable?

String is a type of data which can be consist of combination of alphabets or alphabets and integer whereas variables are entities which stores the data for use.

3. Describe three different data types.

Integer – It consists of all the numeric values

String – It consists of text having various combinations of alphabets or alphabets and numeric values

List – It consists of various data like an array. List can store data with different data types.

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

Expressions are combinations of integers, variables and mathematical operators.

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

Expressions are combinations of integers, variables and mathematical operators which returns some value but statements assign a value to a variable which does not returns anything.

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

Bacon = 22

Bacon + 1

Answer: 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?

Because a variable name cannot be started with an integer as it confuses the compiler.

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.'

This expression causes an error because we cannot concatenate strings and integers. This can be fixed by converting the integer value into string by putting the integer into quotes or to converting it into string by str() function.