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 value. Variable is a place holder. Typically String is placed in a variable.

3. Describe three different data types.

Integer, float, string

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

Expressions made up of one or more operators and will be evaluated to a value. The value could be a integer, float, string or Boolean.

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement? This statement assign the value of 10 into a variable called Spam overwriting the earlier value of Spam or if no value exited earlier creates a variable called Spam and assigns the value 10 over the variable.

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

bacon = 22

bacon + 1

bacon will have the value 22 only. The second one is a expression, which can be used in “if” statement or in looping to test validity.

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 variable name should have atleast one alphabet.

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.' 99 is a int, while it is preceded and followed by a string. To concatenate 99 should be converted into a string with str(99) function.