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.

\* 🡪 Expressions

'hello' 🡪 Values

-87.8 🡪 Values

- 🡪 Expressions

/ 🡪 Expressions

* 🡪 Expressions

6 🡪 Values

2. What is the difference between string and variable?

String is a type of variable that can contain letters, words, sentences, whilst Variable is something that stores data.

3. Describe three different data types.

Numeric: Represents the data which has numeric value, i.e. Integer, Float and Complex Number

Booleans: The truth statement, contains only True / False or Yes / No or 0 / 1

Sequence: The ordered collection of similar or different data types, i.e. String, List, Tuple

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

Expression is made up of operators and operands.

It creates a new value.

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

Statement represents an action or command, whilst expression is a combination of variables, operations, and values that yields a result value.

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

bacon = 22

bacon + 1

bacon variable contain 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 name cannot be started with a number

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.'

String can only concatenate with string.