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?

A variable is a store of information, and a string is a type of information you would store in a variable and variable can store all types of information whereas string is a value assigned in quotes

3. Describe three different data types.

Numeric data types that store numeric values like int, float, complex

Sequence data types that store sequential data like list, tuple, dict

Text data type that stores data inform of string - str

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

Expression is made of mathematical operators used to perform mathematical operations

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

Expression evaluates to a single value and statement is an instruction for interpreter to execute

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

bacon = 22

bacon + 1

bacon will be same because bacon+1 is not reassigned to bacon

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?

According to the rules in python for variable names first character cannot be 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.'

Strings cannot be added to numeric value to get the result 99 should be written In quotes