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 somewhere we can store some type of data. A string is a list of charecters

3. Describe three different data types.

Int, float, string, list, tuples, dict

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

An expression is made of variables, values and operators. Expressions are used to carry out a specific operation in the code to calculate a value

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

Expressions are evaluated to produce a value. Statements perform an action such as assigning a value of 10 to variable spam. Other type of statement include conditional statement & looping statement

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

bacon = 22

bacon + 1

the value store in bacon is still 22. But if we return bacon=bacon+1 the value becomes 23

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

'spam' + 'spamspam'

'spam' \* 3

“spamspamspam”

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

Eggs is completely string, but 100 is integer. Variable name cannot start with integer. It may contain integer like e100

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.'

This expression is trying to add different data types.

We can correct it by: 'I have eaten ' + ‘99’ + ' burritos.' Or 'I have eaten ' + str(99) + ' burritos.'