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.

\* - This is an expression

'hello' – This is a value

-87.8 – This is a value

- - This is an expression

/ - This is an expression

* - This is an expression

6 - This is a 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.

3. Describe three different data types.

Integer – This is a whole number

Float – Number with a decimal

Boolean – True and False

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

An expression is a combination of operators and operands that is interpreted to produce some other value.

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

Expressions are unique in meaning, while statements are two-sided in execution

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

bacon = 22

bacon + 1

Bacon now contains the value 23

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

'spam' + 'spamspam'

'spam' \* 3

It would be ‘spamspamspam’

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

Variable names have to be starting with alphabets and can be alphanumenric, but cannot be numeric

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.'

We have to write 99 as a string like ‘99’ then it will work