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' ------------ > Values

-87.8 ------------ > Values

- ------------ > Expression

/ ------------ > Expression

* ------------ > Expression

6 ------------ > Values

2. What is the difference between string and variable?

Variable – is a memory location to store values like a pointer to memory location

String is a type of data

3. Describe three different data types.

String

Integers

Boolean

Float

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

An expression is made up of mathematical operators and values. Expressions give a single value

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

Assignments statements store values where as Expressions evaluates and give a single value

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

bacon = 22

bacon + 1

bacon = 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?

Variables names 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.'

Concatenation of Strings and Integers is not valid.

To fix this = 'I have eaten ' + int(99) + ' burritos.'