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.

\*

'hello' - value

-87.8 - value

- expression

/ expression

* expression

6 value

2. What is the difference between string and variable?

String is a type of data in text form while a variable is like a container which can store different data type values.

3. Describe three different data types.

Int – It has Integer values as data type, for example 2, 3 and mathematical operations can be performed on them directly.

String – It has text as data type, for example simple English words like “Money” and represented inside inverted commas in python.

Float – It is a data type which has decimal values as well, for example 20.36.

Bool – It is a data type which represents two binary conditions True and False.

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

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

Expression represent the mathematical operators like +, - or = while statement represent a line of code which can contain expressions as well as different data types.

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

bacon = 22

bacon + 1 = 23

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

'spam' + 'spamspam'

'spam' \* 3

‘spamspamspam’ for both

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

Because numbers can’t be used at starting of a variable name

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

int()

str()

float()

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

It shows - TypeError: can only concatenate str (not "int") to str

We can fix it by converting 99 into a string by using str(99) in place of 99 in this code line.