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.

\* expressions

'hello' values

-87.8 values

- expressions

/ expression

* expression

6 values

2. What is the difference between string and variable?

A string is a data type whereas a variable is a place where a data is stored.

3. Describe three different data types.

Float – These are basically numbers with decimal

Integer – These are whole numbers (no decimal)

String – This can be any characters written between single or double inverted commas

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?

A statement is a code instruction that is executed by the python interpreter

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

bacon = 22

bacon + 1

22

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?

Numbers cannot be used as variable name

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

Integer – int()

Float – float()

String – str()

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

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

Because it contains a combination of string and integer.

A correction may be to convert the integer to a string

'I have eaten ' + str(99) + ' burritos.'