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 data type holds one or more characters with notation ‘ ’

variable is a placeholder for assigning data types. Example: a = ‘gdfdfsf’; a is varibale

3. Describe three different data types.

string data type: holds characters, integer holds whole numbers, float holds decimals

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

expression made up of equation (example: a= b+c), expression do some mathematical operations

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

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'

'spam' \* 3

value is same for both terms: 'spamspamspam'

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

eggs variable is characters and is valid, 100 is an integer and so it’s not a valid variable name because can’t assign literal.

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

int(value), float(value), str(value)

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

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

can’t concatenate string and int. I fixed it by 'I have eaten ' + str(99) + ' burritos.'