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

/ expressions

* expressions

6 expressions

2. What is the difference between string and variable?

A variable is a memory location or a reference to store integers ,strings or float.

String is a type of data type of sequence of characters it can also include numbers but will be considered as strings

3. Describe three different data types.

Int ,float and boolean

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

An expression is combination of operators and operand which will give a desired output. All expressions will produce a new value

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

Statements are standalone unit which doesn’t return any value .Expression use some functions and values and generate a new value out of them

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' \* 34

spamspamspam

spamspamspam

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

compiler won't be able to decide if it's a number or identifier until it hits 'a', and it needs backtracking as a result.

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.'

String cannot be only concatenated with string