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' -Value

-87.8 -Value

- - Expression

/ - Expression

+ - Expression

6 -Value

2. What is the difference between string and variable?

String is a combination of character.

Variable is a placeholder to store a value, value could be of type integer, float, string etc

3. Describe three different data types.

Integer- Numbers without decimal place

Float- Numbers with decimal value

String- combinations of characters

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

Expression is made up of operators and operands. Python interprets the results of operations and assign the value to a variable

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

Statement is used to declare variables, print values etc. there are no evaluation done under a statement.

Expression do evaluate some values.

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

bacon = 22

bacon + 1

Output: 22

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

'spam' + 'spamspam'

'spam' \* 3

Output 1: Spamspamspam

Output 2: Spamspamspam

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

Because variable names cant start from an integer. It should start with either alphabets or \_

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.'

Error cause: trying to add values of different data type, i.e. string and integer

Resolution: cant put 99 in quotes to make it string

Correct expression: 'I have eaten ' + '99' + ' burritos.'