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 datatype where as variable holds a value of a datatype

3. Describe three different data types.

Int - accepts only non decimal numbers

Str - accepts characters,numbers and special characters

float- accepts decimal numbers

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

Expression is a sequence of operators and operand

All expressions returns a value by performing the necessary operations on the operand

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

Expression yields a value whereas a statement does not

An expression is also 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

spamspamspam

spamspamspam

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

Variable names should not start with numbers

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.'

This would throw an error like datatype mismatch, we cannot concat an integer datatype with a string datatype

Here we need to convert the integer to string datatype

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