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.

ANS-

\* ------- expression

'hello' ------ value

-87.8 -------- value

- -------- expression

/ ------ expression

* -------- expression

6 ---------- value

2. What is the difference between string and variable?

ANS-

A Variable is a store of information and a String is a type of information which is store in a Variable.

3. Describe three different data types.

ANS-

Numeric data type - It represent the data which has numeric values.

example - int , float, complex number

Sequence data type - It is the ordered collection of similar or different data types.

example - string, tuple, list

Boolean data type - Data type with one of the two built-in values, True or False.

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

ANS-

expression is made up of operator and operands.every expression always evaluates to a value.

like - a+b -- it perform addition

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

ANS-

An Expression always evalutes to a value. and a Statement does someting, like creating a variable or displaying a value, it only does whatever the statement says.

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

bacon = 22

bacon + 1

Ans - bacon = 22

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

ANS-

'spam' + 'spamspam' = spamspamspam

'spam' \* 3 = spamspamspam

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

ANS-

Variables names cannot begin with numbers.

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

ANS-

int(), float() and str() can be used to get the integer, floating-point number, or string version of a value.

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

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

ANS-

Expression cause an error because int and string values cannot be concatenate

To fix 'I have eaten ' + 99 + ' burritos.' we need to convert 99 from int to string using str()

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