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- expressions

'hello' : Ans -values

-87.8 : Ans - values

- : Ans - expressions

/ : Ans - expressions

* :Ans - expressions

6 : Ans- values

2. What is the difference between string and variable?

Ans: Variable is a container that can hold different types of values/datatypes , string being one of them. String is a datatype .

3. Describe three different data types.

Ans: Strings

List

Integers

float

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

Ans : Expressions mathematical operators to perform operations on different datatypes.

Expressions can add /subtract/divide/ multiply / get reminders . Basically do all the mathematical operations on variables or values.

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

Ans : Statement is used to create variables and is two sided. Expression produces some results are being evaluated .

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?

'spam' + 'spamspam' Ans : spamspamspam

'spam' \* 3 Ans: spamspamspam

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

Ans: variable name cannot start with numbers . It can start with alphabets and underscore only.

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

Ans : int(), float(), str() respectively.

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

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

Ans:

Here we are trying to concatenate integer and string so it is throwing an error . We can remove convert the integer to string and then concatenate.

'I have eaten ' + ‘99’ + ' burritos.'