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.

\* ->mathematical operator

'hello' ->values

-87.8-> values

- ->mathematical operator

/ -> mathematical operator

* -> mathematical operator

6 ->values

2. What is the difference between string and variable?

Variable is a store of information

String is a type of information.

A String can be stored in a variable.

3. Describe three different data types.

Integer, Floating point number, String

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

An expression is a construct made up of variables, operators, and method calling which are constructed according to the syntax of the language, that evaluates to a single value.

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

An Expression always evaluates to a value., A statement does something, like creating a variable or displaying a value, it doesn’t evaluate .

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

bacon = 22

bacon + 1

bacon variable should be 22 here as bacon + 1

doesn’t reassign in bacon(it should be 23 when we write bacon= bacon + 1

)

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

'spam' + 'spamspam'

'spam' \* 3

First term=spamspamsam

Second term=spamspamspam

Both term output should be same while first one is adding two string

While second term is multiplying same term 3 times

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

A variable name must start with a letter or the underscore character. A variable name cannot start with a number

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

int()->integer

float()->float point number

str()->string

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

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

'I have eaten ' + 99 + ' burritos. ' The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.