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.

\* is an expression

'hello' is a value of a string

-87.8 is a value

- is an expression

/ is an expression

+ is an expression

6 is a value

2. What is the difference between string and variable?

>A string is a type of value/information assigned to a variable.

>Variable is used to store a value which can be processed during the runtime.

Ex : C ='Hi, I am Manoj' . C is a variable of type String

3. Describe three different data types.

>Integer

>Boolean

>String

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

>An expression is made up of operators and operands. It interprets the data/information as per the variables defined and operators included

Ex : c = 4 + 6

o/p : 10

Ex : B = c \* 4 / 5

o/p : 8

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

>Statement is used to define a variable or an object

>Expression provides a value based on it's interpretation

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

bacon = 22

bacon + 1

>value of bacon will be 22. Output of bacon + 1 will be 23

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

'spam' + 'spamspam'

'spam' \* 3

>'spamspamspam'

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

>Because 100 is an integer. And cannot be used to hold a value/information

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

>int. Ex : int (bacon) = 22

>float. Ex : float (bacon) = 22.0

>str. Ex : str (bacon) = '22'

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

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

>Because we can only concatenate strings not integer.