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'-Values

-87.8

- Exprssion

/ - Expression

* -Expression

6 Values

2. What is the difference between string and variable?

Variable is basically store the data or information for any data type where String is a data type which store basically any series of character.

3. Describe three different data types.

Int:-Int basically store numerical value like 1,2 3.

String-String is data type which store series of characters

bool-bool basically strore boolen data like True and False.

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

Expression are made of with operators and operands. Expression helps to represent of a value.

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

An expression is any legal combination of symbols that represents a value. Examplelike 5.,(2+3) where statement is a programming instruction that does something.

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

bacon = 22

bacon + 1

Bacon still contain 22 because we have added 1 but not store in bacon itself.

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

'spam' + 'spamspam'

'spam' \* 3

Both give us result

'spamspamspam'

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

Because variable cant start with a numeric value, it should be some character. thats why eggs is a valid variable but 100 is not.

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

For integer Its Int()

For floating-point number is Floot()

For String value its String()

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

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

We can fix it in this two way like

Added single quote like 'I have eaten ' +’ 99’ + ' burritos.'

Convert 99 into String 'I have eaten ' + str(99) + ' burritos.'