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' -value

-87.8 -value

- -expression

/ -expression

* -expression

6 -value

2. What is the difference between string and variable?

string is a data collection of characters and is enclosed in single or double quotes where as variable is used to store value of any datatype. However we cannot use key function names as variable.

3. Describe three different data types.

int: this data type contains all the integer datas

string: this data type is used to store the data as collection of characters data

booean: boolean data type generally have two values(True/False). It generally gives the truth or false of a logical expression

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

An expression is made up of values, operators.It process the data and gives the output value.

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

An expression takes the values return the result where as the statement doenot return any values as output like in assignment and print

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

bacon = 22

bacon + 1

22

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

'spam' + 'spamspam' - 'spamspamspam'

'spam' \* 3 - 'spamspamspam'

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

any variable should not be a integer and it shoud start with either charchter / underscore. so, egg can be a variable where as integer 100 cannot

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

int()

float()

str()

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

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

This causes type mismatch error as we cannot concatenate diffrent data types here string and int(99) are different data types.this can be solved by converting the 99 as string

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

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