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.

\*

'hello'

-87.8

-

/

6

Ans:- \* = mathematical operators

'hello'= string

-87.8= float

- = mathematical operators

/ = mathematical operators

2. What is the difference between string and variable?

Ans:- A variable is something that holds a value that may be change. Basically variable is name of location of primary memory of the computer.

String is a list of characters. It is a data type and string can be stored in any variable.

3. Describe three different data types.

Ans:- Strings, Integer, Boolean, Float.

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

Ans:- An expression is a contract made of variable, method and operators with particular syntax to determine a value.

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

Ans:- An expression holds values and a combination of operators and operands. Whereas a statement is an instruction to execute the value.

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

bacon = 22

bacon + 1

Ans:- bacon = 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans:- spamspamspam for both terms.

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

Ans:- Because a variable name cannot be started with number. So, eggs is a valid variable name while 100 is invalid.

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

Ans:- float(), int(), str()

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

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

Ans:- This expression cause an error because 99 is an integer so cannot be concatenate with string values. To fix this we can use below code:-

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