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-values

- - expression

/ - expression

* - expression

6 - values

2. What is the difference between string and variable?

Ans- The string is the data type that displays some information while variable is used for storing some data or information. String is represented in an inverted comma.

3. Describe three different data types.

Integer(int)- used to store integer values ex(-1,0,2,3.5)

String(str)- set of characters or numbers represented in inverted commas(‘ ’) which display some information.

Boolean- It provides two values as True or False. These values are used to determine the given statement is true or false.

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

Ans- An expression is a combination of variables, constants, operators, and function calls that can be evaluated to produce a value. and they are used to perform computations, assign values, make comparisons, and control program flow.

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

Ans= Spam=10 is an statement and right hand side of this statement i.e ‘10’ is an expression.

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

bacon = 22

bacon + 1

Ans= 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?

Variable stores values as eggs is a variable that may store any value while 100 is an value which cannot be variable also numerical value cannot be variable.

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

Ans- 1) int() – for integer

2) float()- for float

3) str() – for string

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

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

Ans- Cannot concatenate the sting and integer value here 99 is a numerical value while others are strings. Correct expression is ‘I have eaten’+’99’+’burritios’.