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 type which is stored in memory location whereas variable is the name given to the memory location in a program.

3. Describe three different data types.

String, Integer and floating-point number.

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

An expression is made of symbol. All expressions perform meaningful task like arithmetic operators do addition, subtraction, multiplication and division.

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

This statement is showing the value of variable whereas expression is ‘=’

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam' = spam + spamspam

'spam' \* 3 = spamspamspam

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

Because variable name can’t start with a number.

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

Considering variable A,

A = int(A) (for integer)

A= float(A) (for floating point number)

A = str(A) (for string)

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

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

Because this statement is a mix of string and integer.

Correct will be

‘I have eaten’ + ‘99’ + ‘burritos’