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 - A string is a data type that consists of a sequence of characters. A variable is a named storage location that can contain data of a specific type.

3. Describe three different data types.

String , int, dictionary

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

An expression is made up of values (including variables), operators, and calls to functions. Expressions combine these elements to produce computations or comparisons.

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

A statement is a unit of code that the Python interpreter can execute. An expression is a combination of values, variables, operators, and calls to functions.

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

bacon = 22

bacon + 1. Ans – the value is still 22 because after addition it is not storing in bacon again

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?

The number 100 is invalid because it is not a valid variable name.

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

Int() for integer , float() for floating number , str() for string

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

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

Because string can’t concat with int the correct way is below

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