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?

Ans- String is the data type and variable is the container which stores the values like string.

3. Describe three different data types.

Ans:- Integer, Float, String, Boolean, Complex

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

Ans: Expression is made up of mathematical operators and the expressions perform certain operations on the data/values provided

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

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

bacon = 22

bacon + 1

Ans:- The variable bacon will still contain the value 22 since we have not updated the bacon variable with latest value.

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

'spam' + 'spamspam'

Ans1- 'spamspamspam

'spam' \* 3

Ans2- ‘spamspamspam’

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

And:- The variable name should start with alphabet or underscore but not with the number, however variable name can contain the number but not in the beginning

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

Ans: We can use int(value), float(value), str(value)

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

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

Ans: Since the python is strongly typed programming language we cannot perform operations between int and string, for the above problem to be solved we need to typecast 99 to string.