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.

\* : operator

'hello' : value

-87.8 : value

- : operator

/ : operator

* : operator

6 : value

2. What is the difference between string and variable?

String is a ‘value/data type’ and variable is an entity which stores any different ‘value/data’ at different point of time.

3. Describe three different data types.

Ans: Integer, string and list

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

Ans: Expressions are mad of operators. Expressions do different operations like arithmetic, logical operations

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

Ans: Statement assigns a value to the variable while expression calculates the value.

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?

Ans: Since 100 is a valid number it will be by default treated as an integer. Even though eggs is a word, it will be considered as a variable as it is not put in ‘ ’ or “ ”.

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

Ans: int(value), float(value) and str(value)

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

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

Ans: 'I have eaten ' + ‘99’ + ' burritos.'