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.

\*

'hello'

-87.8

-

/

6

>>> Values : ‘hello’, -87.8, 6

>>> Expressions: \*, -, /, +

2. What is the difference between string and variable?

>>> String is one of the data type in Python, It holds sequence of characters.

>>>> Variable is a name to allocate some memory chunks based on data type and used to store the data.

3. Describe three different data types.

>>>> String - It holds sequence of characters.

>>>> Int – It hold the whole number.

>>>> Float – it holds decimal numbers.

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

>>>> Expressions are made up with arithmetic and logical operators. It evaluates the expression between variables and return final results.

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

>>>> Expression can be assigned or used as operators while statement is only declared.

>>>> Statement creates side effects while expression are values or execute the values.

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

bacon = 22

bacon + 1

>>>> 22

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

'spam' + 'spamspam'

'spam' \* 3

>>>> The first one is adding (concatenating )two strings.

>>>>The second one is multiplying the ‘spam’ string by three times with \* operand.

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

>>>>eggs is valid variable name because it contains alphabetical characters.

>>>> 100 is not valid variable because it contains numerical characters.

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

>>>> Integer -> int()

>>>> Float -> float()

>>>> String -> str()

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

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

>>> Strings cannot be concatenated with number directly, we need to use format function inside print function.