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

Answer : Values = 'hello' , -87.8, 6

Expressions = \* , - , / , +

2. What is the difference between string and variable?

Answer : A Variable the name of location in the primary memory of a computer. A variable can store multiple data types including strings.

Strings is usually words or sentences enclosed with “ “ . Strings are type of information we would store in a variable.

3. Describe three different data types.

Answer: Text type (str ) , Numeric Type ( int , float, complex) & Sequence Type (list , tuple, range).

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

Answer: An expression is a combination of operators, constants and variables. An expression may consist of one or more operands, and zero or more operators to produce a value. All expressions help the programmer to iterate the programme properly.

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

Answer: A statement is a complete line of code that performs some action, while an expression is any section of the code that evaluates to a value.

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

bacon = 22

bacon + 1

Answer: 22

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

'spam' + 'spamspam'

'spam' \* 3

Answer: both are spamspamspam

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

Answer : Variable names cannot begin with a number. Therefore, eggs a valid and 100 is an invalid variable.

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

Answer: The int(), float(), and str() functions can be used to get the integer, floating-point number, or string version of a value.

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

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

Answer: The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.'.