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

Ans) Expressions : \*, -, / , +

Values:'hello', -87.8,6

2. What is the difference between string and variable?

Ans) String is a type of data and Variable is a location in which data is stored

Ex: S1= ‘Name’ here S1 is a variable that stores string type of data called ‘Name’.

3. Describe three different data types.

Ans) Numeric, Boolean, Sequence type.

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

Ans) An expressions are set of instructions which consists of values and operators combined and all expressions generally evaluate something that was defined in an expression .

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

Ans)Here spam is a variable that stores integer type of data. The major difference between expression and statement is that, an expression is combination of operators and values. And a statement is something which takes some action to do.

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

bacon = 22

bacon + 1

Ans)23

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

'spam' + 'spamspam'

'spam' \* 3

Ans) Both the terms gives the same value as an output ‘spamspamspam’.

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

Ans)Eggs is valid variable Name because it has characters in between A to Z and 100 is invalid because it starts with numeric value.

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

Ans)int() ,float(),str().

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

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

Ans)This is because it cannot concat integer with a string, if we convert that integer value to string value then we can get the expected output. ‘I have eaten ‘ + ‘99’ + ‘ burritos' this will give the expected output ‘I have eaten99burritos'.