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.

Solution:

\* :- Mathematical operator

'hello’: - String

-87.8: - flor

- : - Mathematical operator

/ : - Mathematical operator

* :- Mathematical operator

6 : - Integer

1. What is the difference between string and variable?

Solution:- String is a collection of characters whereas a variable is used to store information.

1. Describe three different data types.

solution: - Integers, float, characters

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

solution: -

(1) Expressions are made of constants, variables, mathematical or logical, or bitwise operators

(2) Expression basically performs Arithmetic, logical or bitwise operations that are defined by the user and gives output

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

Solution:- Expression always generate a resulting value but in case of statement it may or may not produce or generate a resulting value.

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

bacon = 22

bacon + 1

solution : - bacon = 22

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

Solution: -

'spam' + 'spamspam' o/p : - ‘spamspamspam’

'spam' \* 3 o/p : - ‘spamspamspam’

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

Solution: - As rules for defining variable in python variable cannot be an integer number as in the above case 100 is an integer number hence it cannot be used as a valid variable name on the other hand eggs is a string and can be used as a valid variable name in python.

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

Solution:- int(), float(), and str()

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

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

Solution:- here non string value 99 is concatinated with string value which is creating a error.

In order to fix it it can be written as

'I have eaten ' + ‘99’ + ' burritos.'