Python Basics Assignment -1

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.

\* - Expression

'hello' - Value

-87.8- Value

- - Expression

/ - Expression

* - Expression

6 - Value

2. What is the difference between string and variable?

Variables are symbols that are used to store data in a program whereas strings are a type of data that are stored in variables.

3. Describe three different data types.

String - It consists of alphabet characters.

Integer - It consists of whole numbers

Boolean - It consists of only two values - True and False.

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

Expression is used to represent the values in a code and they are made up of symbols and signs.

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

Expression - It is used to represent the values in a program

Statement - It is used as an instruction for execution of a program

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

bacon = 22

bacon + 1

Bacon = 23

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

'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

A Variable name is case sensitive and accepts only alphabets or underscore character and not numbers in it.

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

Integer - int()

Floating-point number - float()

String - str()

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

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

Correct code - 'I have eaten ' , 99 , ' burritos.'