Assignment-1

1) * → expression   / → expression

  'hello' → value   + → expression

  -87.8 → value   b → value

  - → expression

2) Difference between String & Variable

* Variables are used to store values, it gives data or information to computer for processing.

* String is a datatype which can acts as value to store in a variable.

3) Three different datatype :-

List, tuple, dictionary, string etc are some of the datatypes.

List :-

* Elements in list are separated by commas, enclosed in square bracket [].

* Mutable, can be changed and contains different type of data (integer, floating point no, string, complex no).

String :-

* Elements is expressed by single quote or double quotes, enclosed within brackets ().

* It is immutable, cannot be changed after creating

Dictionary :-

* Elements are enclosed by { } curly braces.

* Represents key-value pair, no special characters

* Can store different datatypes e.g int, string, float, complex no, tuples, list, set.

4.) Expression:-

* Are made of operators and operands which results in processing a final value.

$$a + b = 10$$

a, b → operands   +, = → operator   10 → value.

* A code is evaluated on its precedence of operators or an expression.

5) spam = 10

An expression assigns values to variables whereas a statements just executes keywords such as "print".

6) Bacon = 23

7) Both terms results in same value (i.e)

'spam' + 'spamspam'   } → spamspamspam

'spam' * 3

8) 'Eggs' is a string, so it can be used as a variable name whereas 100 is an integer Rules:- Variable names cannot begin with number.

9) integer → int ()   float → float()

string → str()

10) 'I have eaten' + 99 + 'burritos'

This statements causes error because an integer cannot be concatenated with string in python. 99 can be enclosed in single quotes '99' to print the statement without error.