Assignment-1:

- 1. What are the differences between operators and values in the following?
- * :- this is an operator which is used for multiplication.

'Hello' :- this is value which is string.

-87.8 :- this is floating number value.

- :- this is subtract operator.

/ :- this is division operator.

+ :- this is plus operator.

6 :- this is integer value.

2. What is the difference between string and variable?

Spam: this is variable spam which can store any type of value.

'spam': this is string which is list of characters. Any values in the single or double quotation is string value.

3. Describe three different data forms.

Interger: 10,2,22 etc..

Floting point numbers: 10.2, 22.2525 etc...

Boolean: True, False

4. What makes up an expression? What are the functions of all expressions?

An expression is a combination of values, variables and operators.

For example: 10 + 2, a-b

An expression need to be evaluate and it will produce some values.

5. In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

Here,

In the Declaration, we are just creating new variable without giving any values.

This spam = 10 statement, we can refer it as an expression as we are giving value 10 to variable spam.

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

bacon = 22

bacon + 1

after running this code, value of bacon will be 22 because we are not assigning it to bacon again after increment.

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

'spam' + 'spamspam' :- output = 'spamspamspam'

'spam' * 3 :- output = 'spamspamspam'

8. Why is it that eggs is a true variable name but 100 is not?

Variable name can be start with anything except reserve keyword, reserve characters and Numbers.

Egg is start with 'e' alphabet which is fine.

whereas 100 is start with 1 which is number or digits which is not obeying rule for variable name.

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

For converting into interger : function int()

For converting into floating-point value: function float()

For converting into string: function string()

10. What is the error caused by this expression? What would you do about it?

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

This expression will throw TypeError.

To solve this we can convert 99 into string like '99'.

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