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.

\*

'hello'

-87.8

-

/

6

Answer –

\* - Expression

'hello' - Value

-87.8 - Value

- - Expression

/ - Expression

* - Expressions

6 - Values

2. What is the difference between string and variable?

Answer –

String is the data type, which contains the Text value only while the variable is any number which may contain any datatype, operator or expression.

3. Describe three different data types.

Answer – Three different types of data types;

1. String – str
2. Interger – int
3. Float - float

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

Answer –

*Expressions are the combination of operators and operand, which may contain the operators, variables and constants.*

*Expressions do evaluate and provides the result as values.*

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

Answer –

Spam = 10 is an expression as well as statement.

Expression is a combination of operators and operand which evaluates and produce a value, while every line in python is a statement which may or may not produce a value .

An expression can be a statement but a statement cannot be an expression.

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

bacon = 22

bacon + 1

Answer - 22

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

'spam' + 'spamspam'

'spam' \* 3

Answer –

'spam' + 'spamspam' = spamspamspam

'spam' \* 3 = spamspamspsam

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

Answer –

A variable cannot hold the numeric value but can hold numeric value followed by alphabet.

Example – sumit123 is a valid variable while 123 is invalid as it can’t hold the numeric value.

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

Answer –

Below functions can be used to get the :

Integer – int()

Float – float()

String – str()

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

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

Answer –

It will result in error as string value can’t be combined with the integer value .

It can be fixed by type casting as by converting the integer to string.

A = 'I have eaten '

B = str(99)

C = ‘burritos’

Combine = A+B+C

Combine.