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.

Ans --

\* --- Expression

'hello' -- value

-87.8 -- Value

- -- Expression

/ -- Expression

* -- Expression

6 -- Value

2. What is the difference between string and variable?

Ans. String - A string is a series of characters. In python anything ,inside quotes is a string either single quotes or double quotes.

Variables - Variables are containers for storing data values. It is a reserved memory location to store value.

3. Describe three different data types.

Ans- Three different data types are as follows –

1 – Numeric data type – numeric data type represent the data which has numeric value. Numeric value can be integers , floating numbers or even a complex number.

2 – Sequence type – Sequence is the ordered collection of similar or different data types. There are several sequence types in python – string, list , tuple

3 – Boolean data type – data type with one of the two built-in values , true or false. True and False with capital T and F is valid in python otherwise it will throw an error.

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

Ans – An expression is the combination of operators and operands that is interpreted to produce some other values.

Expressions are used to compute and to assign values to variables and to help control the execution flow of a program.

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

Ans. Statements are simple action or sentence that represent some instructions , like spam = 10 represents spam has value 10 whereas expression are executable statements combined with variables , operator and operands that will execute to give some result or value.

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

bacon = 22

bacon + 1

Ans. bacon will still have value 22 as we are not reassigning the bacon variable but running this code will print 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans

‘spamspamspam’

‘spamspamspam’

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

Ans.

Because as per the python rules for naming a variable states that a - variable name must start with a letter or underscore character .

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

Ans-

int() -- integer version of value;

float() – floating-point version of value;

str() – string version of value;

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

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

Ans-

This expression cause an error because string can be concatenated with string only not integer or other data types.

We can fix it by making 99 as a string

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