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 is collection of alphabets or different character which we can store in a variable.

Variable is use to store data , strings and other information, it can point to an object and we can access them through the same.

3. Describe three different data types.

Ans-

String data type = collection of characters , letters , numbers symbol etc.

Numerical data type = we can store numbers like integer ,floating point number and complex numbers

Boolean data type = this data type is use to get the result of an expression in true or false

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

Ans –

Expression is made up of operators and (operands or value) or variables ,operations and values, they will execute or produce some results or values .

Expressions helps to evaluate some logics or execute some functionalities or produce some value

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 in 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.'