**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.

\* : Expression

'hello' : Value

-87.8 : Value

- : Expression

/ : Expression

+ : Expression

6 : value

2. What is the difference between string and variable?

**String** : A string is a sequence of one or more characters like (letters, numbers, symbols) that can be either a constant or a variable.

**Variables** : Variables are symbols that you can use to store data in a program. You can think of them as an empty box that you fill with some data or value.

3. Describe three different data types.

INTEGER- Contains Numerical values

FLOAT - contains decimal values

STRING - sequence of Character data

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

An expression is a combination of values, variables, operators, and calls to functions. Expressions need to be evaluated.

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

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

Statement is just like a command that a python interpreter executes like print

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

bacon = 22

bacon + 1

Ans- bacon = 22

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

'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = spam ='spamspamspam'

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

Because variable name cannnot start with an integer hence 100 is invalid variable name.

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

str(), int(), float()

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

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

Ans - Because 99 is an integer it cannot be concatenated with strings, if we have to concatenate it we need to do typecasting.