**Assignment No-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

Ans) Values:- 'hello', -87.8,6

Expressions:- +,-,\*,/ and

2. What is the difference between string and variable?

Ans) String:-String is a sequence of characters and it begins with quotes and also end with quotes.

Variable:-It is an entity where any data can be stored.

3. Describe three different data types.

Ans) Three types of data are Integers, floating point numbers and strings.

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

Ans) Expression is made up of values and operators and all expressions reduces to a single value.

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

Ans) An expressions reduces to a single value but statement is a combination of variables, constants and operators and it does not reduce to a single variable.

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

bacon = 22

bacon + 1

Ans) After running the above code, the variable bacon contains 23.

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

'spam' + 'spamspam'

'spam' \* 3

Ans) The values of the following two terms will be

‘spamspamspam’

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

Ans) Eggs is a valid variable name while 100 is invalid because variable name can’t be start with a number.

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

Ans) Three functions can be used to get the integer, floating-point number, or string version of a values are int() , float() and str().

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

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

Ans) This expression causes an error because concatenation is possible between strings only but 99 is not a string, it is an integer.we can fix it to write 99 in quotes or by making a string like as

'I have eaten ' + ‘99’ + ' burritos.'