**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

ans: values- (‘hello’, 6, -87.8), expression (\*, -, /, +)

2. What is the difference between string and variable?

ans: **String** is collection characters written with in double or single quotes.

**Variable** are symbols used to store the data of different data types.

3. Describe three different data types.

ans: Integer, Float, String.

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

ans: Expression are made up of values and operators. which are used to produce some sort of results.

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

ans: Expression returns some results when executed. Statements doesn’t return any result it just executes whatever written in the statement.

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

bacon = 22

bacon + 1

ans: bacon=23

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

'spam' + 'spamspam'=’spamspamspam’.

'spam' \* 3=’spamspamspam’.

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

ans: a variable name can be combination of alphanumeric values and underscore. variable name can start with letter or underscore and cannot start with numeric value.

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

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

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

ans: Because the expression is combination of string and numeric variable. we can fix it by placing [99] with in single quotes.

'I have eaten ' + ‘99’ + ' burritos.'