Assignment No.1

**Que1.** 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:- \* :-** Mathematical operation (Multiplication)

‘hello’:- String

-87.8:- Float

- :- Mathematical operation (Subtraction)

/ :- Mathematical operation (Division)

+ :- Mathematical operation(Addition)

6 :- Integer

**Que2**. What is the difference between string and variable?

**Ans:-** **Variables:-** Variables are symbols that you can use to store data in program. You

can think of them as an empty box that you fill with some data or value.

**Strings:-** Strings are data, so we can use them to fill up a variable.

**Que 3.** Describe three different data types.

**Ans :-** Integers, floating-point numbers, and strings.

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

**Ans :-** An expression is a combination of values and operators. All expressions evaluate (that is, reduce) to a single value.

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

**Ans :-** An expression evaluates to a single value. A statement does not.

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

bacon = 22

bacon + 1

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

'spam' + 'spamspam'

'spam' \* 3

**Ans :-** Both expression evaluate to the string ‘spamspamspam’

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

**Ans :-** Variable names cannot begin with a numbers.

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

**Ans :-** The int(), float() and string() function evaluate to the integer, floating-point number

or string version of value passed to them.

**Que10.** Why does this expression cause an error? How can you fix it?

‘I have eaten’ + 99 + ‘burritos’

**Ans :-** The expression causes an error because 99 is an Integer and only strings can be

Concatenated to other strings with the +operator.

The correct way is ----- ‘I have eaten’ + ‘99’+ ‘burritos’