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

/ : expresson

6 : value

2. What is the difference between string and variable?

Ans- In Python, a variable is a name that re;presents a value stored in memory, which can be of various types such as numbers, string. Or other data. A string , on the other data. A string , on the other hand, is specific data type that represents a sequence of characters.

3. Describe three different data types.

Ans- Structured data, unstructured data and big data

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

Ans- An expression is a construct made up of variable, operators and method invocations, which are the constructed according to the syntax of the language, that evaluates to a single value.

Expression can be used in a variety of ways, such as in assignment statements, function arguents and conditional statement.

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

Ans- An expression in programming is a piece of code that evaluates to a value such as 1+2 which evaluates to 3. A statement is a unit of execution or action,

A statement is a piece of code that does something. An expression is a piece of code that has a value.

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

bacon = 22

bacon + 1

Ans- sibnce bacon +1 is not stored in any variable

7. Ans- 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- Variables names cannot begin with a number.

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 str( ) functions will evaluates to the integer, floating- point number, and string versions of the value passed to them.

10. 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

` + str(99) + ‘

Burritos. `.