**PYTHON BASIC ASSIGNMENT – 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** | **Values** |
| \* | ‘hello’ |
| - | -87.8 |
| / | 6 |
| + |  |

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

A variable is a named location which holds various types of values whereas string is a value enclosed within quotes and is stored in a variable. For example;

a = “Hello ineuron Team”

**a** is a variable and the **value enclosed within “”** is a string .

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

a. Integer datatype(int) – Stores all integer data and is a non iterable object.

b. Boolean datatype(bool) – Stores Boolean values - True /False

c. List – Collection of Data enclosed within square brackets. List is an iterable object.

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

An expression is a combination of operands and mathematical operators that is interpreted to produce some other value.

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

An expression has an operator and an operand (variable). A statement is used for assigning a specific value to the variable.

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

**bacon = 22**

**bacon + 1**

Variable bacon will hold the value 22.

**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?**

A variable name should not start with a numerical value and hence ‘eggs’ would be a valid variable name and 100 would be invalid.

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

The int() , float() , and str( ) functions will evaluate 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.'**

99 is an integer value whereas the text enclosed within ‘’ is string.

Corrected : 'I have eaten ' + ‘99’ + ' burritos.'