**PYTHON BASIC ASSIGNMENT 1**

**Question 1**. In the below elements which of them are values or an expression? Example-values can be integer or string and expressions will be mathematical operators.

\*

'hello'

-87.8

-

/

6

**ANSWER:** \* - multiplication operator

‘hello’ - string

-87.8 – float

- substraction

/ Division

+ Arithmetic

6 integer

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

**Answer:** A Variable is a store of information, and a String is a type of information you would store in a Variable. string in Python is a sequence of characters A String is usually words, enclosed with "”

Example String x ="Welcome to SoloLearn" X is the Variable, and we declared it as a String

**Question3**. Describe three different data types.

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

**Question4.** What is an expression made up of? What do all expressions do?

**Answer:** An **expression** is a combination of values, variables, operators, and calls to functions. **Expressions** need to be evaluated. If you ask Python to print an expression, the interpreter evaluates the expression and displays the result

**Question5.** This assignment statements, like spam = 10. What is the difference between an expression and a statement?

**Answer:** An **expression** evaluates to a single value. A does not.

**Question6**. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

**Answer:** The bacon variable is set to 20. The bacon + 1 expression does not reassign the value in bacon (that would need an assignment statement: bacon = bacon + 1)

**Question7**. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' \* 3

**Answer:** Both expressions evaluate to the string 'spamspamspam'

**Question8.** Why is eggs a valid variable name while 100 is invalid?

**Answer:** Variable names cannot begin with a number.

**Question9**. What three functions can be used to get the integer, floating-point number, or string version of a value?

**Answer:** The int(), float(), and str() functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

**Question10.** Why does this expression cause an error? How can you fix it?

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

**Answer:** 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