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' – Integer
* -87.8 – Integer
* - Expression
* / Expression
* + Expression
* 6 Integer

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

**Ans.:** String is a type of data while variable is a name which defines with a value whether it is string or integer.

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

* Integer: Numeric value without decimal
* Float: Numeric value with decimal
* String: Sequence of characters

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

**Ans.:** Expression is a combination of values, mathematical operators. When we print an expression in python, the interpreter evaluates the expression and shows the result.

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

**Ans.:** Expression is a combination of values, mathematical operators. When we print an expression in python, the interpreter evaluates the expression and shows the result whereas the statement is a unit of execution which doesn’t return any value.

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

**bacon = 22**

**bacon + 1**

**Ans.:** 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.:** In my opinion, both are invalid, because no variable value should be start from any number and also **is eggs** are two separate words to give variable name.

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

**Ans.:** Functions can be used to get the values are:

* Int() – For numeric value without decimal
* Float() – For numeric value with decimal
* Str() – For Sequence of characters values

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

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

**Ans.:** We cannot add two different type of data in same time. For fixing this problem we have to convert our vale in same data type. Such as:

* ‘I have eaten’ + ‘99’ + ‘burritos’