**Answer for Assignment 1**

1**. In the below elements which of them are values or an expression?**

**Ans-1**

* \* --Mathematical operator
* Hello--String
* -87.8---- Integer
* - (Mathematical operator)
* /--Mathematical operator
* + --Mathematical operator
* 6--Integer

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

**Ans-2** In Python programming, variables are containers used to store data values and strings

In python, a string is a collection of alphabets, words, or other characters enclosed in a single quotation mark or a double quotation mark.

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

Ans-3 Data types are set when you assign values to variables in Python Three types of data types in Python that are in the following categories:

Integers, floating-point numbers, and strings.

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

**Ans-4** In python, an expression combines operators and operands that produce a new value. In any programming language, expressions are evaluated according to their operator precedence

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

**Ans 5-** In python, a single value can be obtained from an expression. A statement does not.

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

bacon = 22

bacon + 1

**Ans-6-** variable bacon contain-22

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

**spam + spamspam**

**spam \* 3**

**Ans 7—**Both these expressions will value to the string 'spamspamspam'

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

**Ans 8**- In Python Variable names cannot begin with a number.so egg is valid name and 100 is not

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

**version of a value?**

**Ans-9** In Python, the three function are 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.**

**Ans 10--**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.'.