**Assignment-1**

a. **The values can be:**

Answer- 6 and ‘hello

b. **The expression can be:**

Answer- +,/,-87.8,\*

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

A Variable is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with ""

Eg String x ="Welcome to Ineuron" X is the Variable, and we declared it as a String, use the single = to assign the text to it.

1. **Three different data types are:**

Numeric:

Numeric data type represent the data which has numeric value.

These values are defined as int, float and complex class in Python.

1. **What is an expression made up of?**

An expression is a combination of operators, constants and variables. An expression may consist of one or more operands, and zero or more operators to produce a value.



**Expressions**: it is only contain identifiers, literals and operators, where operators include arithmetic and boolean operators, the function call operator () the subscription operator [] and similar, and can be reduced to some kind of "value", which can be any Python object. Examples:

**3 + 5**

**map(lambda x: x\*x, range(10))**

**[a.x for a in some\_iterable]**

**yield 7**

**Statements** (see 1, 2), on the other hand, are everything that can make up a line (or several lines) of Python code. Note that expressions are statements as well. Examples:

Bacon=22

Bacon+1

print(bacon)

output:

22

Because here +1 with bacon not store any variable.

So that the bacon value not get updated.

a= 'spam'+'spamspam'  
print(a)  
b='spam'\*3  
print(b)

**output:**

spamspamspam

spamspamspam

1. Rules for Python variables: A variable name must start with a letter or the underscore character. **A variable name cannot start with a number**. A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and \_ )

That why,

Egg name can be variable but, 100 can’t be variable.

1. Int function for integer value get

Float function for floating value we can get

String function for String character we can get.

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

This expression by having different types, and in the python different type are can’t be concatenate with each other, that’s why it throw this error.

To fix it problem.

We can do type casting by chaing **99** int value to string.

a= 'I have eaten'+str(99)+'burritos'  
print(a)

**output:**

I have eaten99burritos