

## PYHTON: 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.

\*

'hello'

-87.8

-

/

+

6

### **SOLUTION:**

Expressions - \*, -, /, +

Values- 'hello', -87.8 ,6

2. What is the difference between string and variable?

**SOLUTION-** A variable can be used to store or hold some values in it. A variable can store data of different data types. And string is a type of data. Which we can store in side any of the variable. String is a data type.

3. Describe three different data types.

### **SOLUTION-**

1. INT: The integer data type can store the whole number from a range of -2147483647 to +2147483647. Example- 1,23,10

2. Float: The float can store the data with floating point numbers or decimal numbers. Example- 0.4, 1.83

3. String: A string is a collection of one or more characters put in a single quote, double quote or triple quote. Example – “Yogender Kushwaha” , “iNeuron”.

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

**SOLUTION-** An expression is made up of the operator and operands. The expression generates some value as a result after being run or interpreted by python. Example: a = b +c

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

**SOLUTION-** A statement in pythons is used to create variables or display some values or data. Example: a = 6, print(a).

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

bacon = 22

bacon + 1

**SOLUTION-** The bacon will contain 22.

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

'spam' + 'spamspam'

'spam' \* 3

**SOLUTION-** 'spamspamspam' , 'spamspamspam'

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

**SOLUTION-** Because a variable cannot start with a number and any special character. That is why egg is valid and 100 is invalid

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

**SOLUTION-**

int(): this can be used to get the integer.

float(): this can be used to get the floating point number.

str(): this can be used to get the string version of a value.

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

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

**SOLUTION-** To perform the addition here all the data should be of same data type. We can fix this by putting 99 in single quote. Like: 'I have eaten ' + '99' + ' burritos.'