**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.

**Answer Number : 1**

\* = Expression

'hello' = Value

-87.8 = Value

- = Expression

/ = Expression

+ = Expression

6 = Value

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

**Answer Number - 2**

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.

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

**Answer Number : 3**

String : String is a data type that we can use to define words.

Float : Float is a Data Type that we can use to define decimal numbers.

Integer : Integer is a data type that can be use to define numbers

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

**Answer Number 4** : 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.

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

**Answer Number -5:**

Expression

Expressions always returns a value

Functions are also expressions. Even a non returning function will still return None value, so it is an expression.

Can print the result value

Examples Of Python Expressions: “Hello” + “World”, 4 + 5 etc.

Statement

A statement never returns a value

Cannot print any result

Examples Of Python Statements: Assignment statements, conditional branching, loops, classes, import, def, try, except, pass, del etc

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

bacon = 22

bacon + 1

**Answer Number : 6**

Answer : 22

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

'spam' + 'spamspam'

'spam' \* 3

**Answer Number : 7**

spamspamspam

spamspamspam

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

**Answer Number 8:**

eggs is valid variable and 100 is not because of python is not allowed to put a number in begining of variable.

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

Answer Number :9

int(value)

float(value)

str(value)

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

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

**Answer Number 10 :**

This expression cause error because of 99 is a Integer and according to python rules we could not concatinate string and integer.

we can fix this like this :

f'I have eaten {99} burritos.'