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' **STRING**

-87.8. **FLOAT**

-  **EXPRESSION**

/  **EXPRESSION**

* **FLOAT**

6  **INTEGER**

2. What is the difference between string and variable?

**A variable is the store of information while the string is the type of information we will store in a variable. E.g.:**

**X= “megha”**

**Here, variable is X and string is “megha”**

**String is usually words enclosed in “”**

3. Describe three different data types.

**1) string: usually words enclosed with double quotes e.g. “ineuron”**

**2) integers: usually whole numbers e.g. 2000**

**3) float : usually numbers with decimals. E.g. 2.5**

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

**An expression is combination of operators, constants and variables. They may consists of one or more operands or zero or more operators.**

**Expressions are used to compute and write a value to perform some function and give meaningful result in python.**

**e.g.: a= 2+3**

**here, 2 and 3 are operands**

**+ is operator**

**a= variable**

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

**A statement is the complete line of code that performs some action while expression is the combination of operators and operands that is interpreted to produce some value.**

**e.g. : here statement is:- spam=10**

**and expression is:- 10**

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

bacon = 22

bacon + 1

**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?

**Because variable names cannot begin with a number**

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

**int()**

**float()**

**str()**

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

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

**Because we have different data types, so we should convert other variable into string.**

**"i have eaten"+str(99)+"burritos"**