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.

\* **(operator)**

'hello' **(Value)**

-87.8 **(Value)**

- **(operator)**

/ **(operator)**

* **(operator)**

6 **(Value)**

2. What is the difference between string and variable?

* **String is a data and variable is used to store data.**
* **F.e : abc = “xyz” (xyz is string or data that stored in abc variable)**

3. Describe three different data types.

* **Numeric : contains integer, float , complex**
* **Strings : str**
* **Boolean : true / false**
* **Others are list, tupple, dictionaries**

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

* **Expression = oprands + operators**
* **Expression generate value or some result and assign it to given variable.**

**f.e : x = 5 + 2 where 5+2 is an expression and outcome 7 will be assign to variable x.**

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

* **Spam = 10 is statement that gives value 10 to variable spam.**
* **Spam = spam\*2 is expression where spam contains the value of 2 times spam.**

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

bacon = 22

bacon + 1

* **22**

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 must start with variable or an underscore and it cant start with numbers. So eggs is valid but 100 is not.**

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

* **Int() for integer**
* **Float() for floating point number**
* **String for str()**

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

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

* Because string can only add another string not numerical values. But if we convert numeric value into string then it gives output as:
* **'I have eaten ' + '99'+ ' burritos.'**
* **o/p: I have eaten 99 burritos.**