**Q.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' 🡪value as a string

-87.8 🡪 value as a integer

- 🡪Expression

/ 🡪Expression

* 🡪Expression

6 🡪Value as a integer

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

**Ans :**

**String :** String as a also as variable type in the python. Or in the python by default variable as the string.

**Variable :** It’s used to store the information like numbers, alphabet as integer, string, float and array.

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

**Ans :**  In the python there are several data types these listing below

1. **Int :**  Integer is the type of the data type in the python for the store numerical values like 1,2, 3, 5 -45
2. **Float :** Float is the also type of the data type in the python to store the floating point numbers like 5.4,-45.5.
3. **String :** String is also type of the data type in the python to store the sequence of alphabetics. Like “Piyush”
4. **Boolean :** Boolean in the python has only two values : “True “, “False”.
5. There are also some advance data types in the python only like:

List , Tuple, Dictinary, Set.

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

**Ans :**  In the mathematics expression is the combination of operators and values(variable) and also sometime we used the constant

Expression : 2 + 4

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

**Ans :**

**Expression :** It is combination of the operators and values. It’s gives the output as result after the evolute the expression.

**Statement :** In the python when we write a like x = input(“Enter the number “) that consider as the statement in the python.

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

**bacon = 22**

**bacon + 1**

**Ans :**  If run in the jupyter notebook then give the output as the 23 or run the ide like vs code then it’s provide the error.

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

**'spam' + 'spamspam'**

**'spam' \***

**Ans :**

In the output both values same : **‘spamspamspam’**

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

**Ans :**  There is certain rules for declaration of variable.

🡪first character must be alphabetic not consider as the integer number for the variable so, that reason gives the invalid variable name error in the python.

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

**Ans :** int(), float(), str()

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

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

**Ans :** Gives the error in the error : **TypeError: can only concatenate str (not "int") to str** because string not concatenate the int variable so that give the error.

**Fixed it : 'I have eaten ' + ‘99 ‘+ ' burritos.'**