**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' **Values**

-87.8 **Values**

- **Expression**

/ **Expression**

+ **Expression**

6 **Values**

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

Ans: - **String is the data type for sequence of characters, which includes letters, spaces & punctuation. Whereas NUMBERS are excluded from this kind of category, as we need to convert**

**That number into string while executing an operation. Such as str (‘3’). And these characters are written under single (‘’) or double (“”) quotes.**

**Variables are references to the values of different types or to store values in memory location and it can be of several types such as integer, string, float, etc. For instance having long data which can be easily stored in any variable for later use, which would save time and memory space.**

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

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

Ans:- An **expression is** a combination of variables, operators, and values that represents a single result value. Computes an arithmetic equation such as addition, multiplication, division, substraction.

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

**Ans:- Expressions can be print and as well as can be assigned to a variable , whereas the same cannot be said in terms of Statement.**

**Ex:- 2+2 , None, min(1,12), 2 are expressions as it does gives a logical output.**

**df xyz , else condition , elif condition etc. Are Statements which does not have value of their own or it doesn’t return to anything.**

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

bacon = 22

bacon + 1

**Ans :- 22**

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

'spam' + 'spamspam'

'spam' \* 3

**Ans:-** **'spam' + 'spamspam' = ‘spamspamspam’**

**'spam' \* 3 = ‘spamspamspam’**

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

**Ans :- Variable name can contain digits but first character cannot be a digit.**

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

**Ans :- Int(), float(), str()**

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

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

**Ans: - 99 is an integer, so we need to convert that integer into string such as**

**'I have eaten ' + str (‘99’) + ' burritos.'**