**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.**

\* 🡪 Mathematical Operators (multiplication)

'hello' 🡪 String values

-87.8 🡪 Float values

- 🡪 Mathematical operator (minus)

/ 🡪 Mathematical operator (division)

* 🡪 Mathematical operator (addition)

6 🡪 Integer values

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

Ans: String is a datatype and variable is where we store data. Variable can be of any datatype, like str, int, float.

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

Ans: 1) List: It is collection of ordered items, where duplicates are allowed.

2) Set: It is a collection of unordered items, where duplicates are not allowed.

3) Dictionaries: It is collection of Key Value pair items. Keys must be unique in the dictionary.

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

Expression is made up of operators and operands. An expression is evaluated as per the precedence of its operators and provide an final value after completing the operations.

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

An expression evaluates to a value after doing the operations mentioned in the expression, whereas statement is like assigning values to a variable.

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

**bacon = 22**

**bacon + 1**

Ans: bacon will contain value 22.

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

**'spam' + 'spamspam'**

**'spam' \* 3**

Ans: Both values will be same 'spamspamspam'.

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

Ans: egg is not a keyword and can be used as a variable name, but 100 is an integer value and as per the naming convention any python variable can start with \_ or any letter.

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

Ans: int() function for integer.

float() function for floating point number.

str() function for String.

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

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

Ans: Here we are trying to concatenate multiple strings, but 99 is integer and it is not able to typecast automatically. To fix it we can use following expression:

'I have eaten ' + str(99) + ' burritos.'