**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

-87.8 : value

- : expression

/ : expression

+ : expression

6 : value

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

A string is a list of characters or letters. This means any letter or alphabet we type in single or double quotes is a string.

Example, “Hello, M”

A variable is used to store values and it has given memory location to store the values. A string can be stored in a variable , an integer can be stored in a variable.

Example - name = “string”, num2 = 2

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

1) List: In list, we can store multiple data and different data type can also be stored .

Example: - [1,2,3,4,5]

2) Integer: only numeric or whole number is an integer

Example - 1, 2, 3, 4, …., n

3) Float: Numbers with decimal

Example - 1.2, 555.6, 33.66

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

Expression which involves operands and variable. Expression evaluates and gives the evaluation or result or output in single value

Example - a = 2 + 3, print(a) — output - 5

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

Expression which involves operands and variable. Expression evaluates and gives the evaluation or result or output in single value

While Assignment statement is like a command where we assign a value into a variable.

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

bacon = 22

bacon + 1

The bacon contain 23.

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

**'spam' + 'spamspam'**

**'spam' \* 3**

The output of both the terms will be same ‘spamspamspam’

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

Because we can't start giving variable an integer name. If we want, we should begin with, a string-like alphabet name then integer. e100 or eggs100 is valid.

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

str(), int(), float()

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

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

Because 99 is an integer and other two are strings therefore we are getting error, if we want to concatenate it we need to do typecasting.