**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.**

\* Multiplication (Mathematical Operator)

'hello' - String

-87.8 - Float

- Subtraction (Mathematical Operator)

/ Division (Mathematical Operator)

* Addition (Mathematical Operator)

6 Integer

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

String is a datatype like Boolean, Integer or float, whereas, Variable is a placeholder where we can assign or store the various datatypes like String, Float, Boolean or Integer.

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

String, Integer and Float are the three majorly used datatypes.

String – string is a datatype which can contain Alphabets, numeric values, fractions contained in a single, double or triple quotation mark. It is represented by str

Integer – Integer is a whole number with out any fractions or decimal. It can be Positive or Negative.

Float – Float are the numbers with decimal. Floats can be Positive or Negative.

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

Expressions are the valid statements of Operators, variables, literals and identifiers. Expressions produces some sort of result or values once interpreted.

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

Statement represents actions while Expressions are the valid statements of Operators, variables, literals and identifiers.

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

**bacon = 22**

**bacon + 1**

variable bacon will contain 22 only, as we have not assigned the result of the addition to the variable again.

Bacon +=1 would have resulted in incrementing the value from 22 to 23

**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?**

Variable names should start with alphabets or underscore but it should not start with digit, that’s why variable name eggs is a valid name while 100 is invalid.

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

Int() to convert any specific value to integer

float() – It returns floating number value

Str() – it returns a string object

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

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

The print statements was missing, also strings cannot be concatenated with ints, so post converting int 99 to string, I was able to get the desired result

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