**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?**

Ans. String is a sequence of characters which is stored into the variable but a variable, stores the information as an integer, Float value, Boolean or string etc.

Also, a string is always enclosed in quotes whereas a variable is never enclosed in quotes.

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

The three data types are:

Int : An integer data type include all integers. For example: -1,-2,0,1,2,2........

Float: It includes all decimal point numbers. For example: 0.40,5.0, etc.

String: It consists of the sequence of characters enclosed by quotes. It mainly includes alphabets. For example: “nikita”, ”Hello world”, etc.

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

Expressions are made up of variables, operators and operands. All expressions evaluates to a value.

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

An expression evaluates to a value. For example: 4+5,”Hey”+”there”, etc.

Whereas , statement never returns a value. It does something. For example: Assignment statements (spam=10), we can only print the value of spam using print function.

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

bacon = 22

bacon + 1

Ans. After running the above code, the variable bacon contains 22 only.

**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?**

A variable always starts with an alphabet or an underscore and never with a number.

That’s why, eggs is a valid variable whereas 100 is not.

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

The int(), float() and str() functions can be used to get the integer, floating-point number, or string version of a value.

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

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

Ans. The above expression shows an error as only string can be concatenated not an integer.

We can fix it by removing the integer 99 from the above expression. Such as,

“i have eaten ”+”burritos”

Output: i have eaten burritos