**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.

**Answer:**

\* :( mathematical operator)

'hello' :(Strings)

-87.8 :(Floating Point Numbers)

- :( mathematical operator)

/ :( mathematical operator)

* :( mathematical operator)

6 :(Integers)

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

**Answer:** String is a data type of a variable while variable is a container that stores values.

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

**Answer:**

Strings: It is a data type that has text values enclosed within single or double quotes.

Integers: It is a data type that has integeral values.

Floating Point Numbers: It is a datatype that has decimal number values.

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

**Answer:** Expression is combination of values, variable, function calls and operators. They evaluate to single final value.

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

**Answer:** A statement is an instruction to computer to perform a task. Expression is made up of values, variable, function calls and operators which evaluates to single value. So, Each and every line of code is a statement while the same is not true for expression.

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

bacon = 22

bacon + 1

**Answer:** 22

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

'spam' + 'spamspam'

'spam' \* 3

**Answer:**

'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

**Answer:** As variable-name can’t begin with a number.

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

**Answer**

Integer : int(value)

Floating-point number: float(value)

String version :str(Value)

**10.** Why does this expression cause an error? How can you fix it? 'I have eaten ' + 99 + ' burritos.'

**Answer:** Concatenation of string is feasible for strings and not for integers and strings.

**Fixing** - 'I have eaten ' + str(99) + ' burritos.' (by converting number 99 from int to string)