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:**

\* - expression

'hello' : value

-87.8 : value

- : expression

/ : expression

* : expression

6 : value

1. What is the difference between string and variable?

**Answer:**

String - Sequence of characters. It is a derived data type and immutable

Variable – Is a reserved memory location to store a values.

3. Describe three different data types.

**Answer:**

1. Integer
2. String
3. Float numbers
4. Complex numbers
5. Boolean

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

**Answer:** Expression are made up with operators and variables. Expressions performs arithmetic and Boolean operations.

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

**Answer:** Statements are instructions given to python interpreter.

Assignments will not give any results it stores a value in particular memory location.

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

bacon = 22

bacon + 1

**Answer**: 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?  
eggs = variable name in python consist upper, lower case letters, numbers and underscore. But the variable doesn’t start with number.

100 – Integer value

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

1.int() – It is used to get the integer value

2.float() – It is used to get the float value

3.input() – It is used to get the string value

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

'I have eaten ' + 99 + ' burritos.'  
  
The data type is different in the above expression. Python only concatenate similar type of data types. So avoid error we can convert data type as same.