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 Variable is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with "" Eg String x ="Welcome to SoloLearn" X is the Variable, and we declared it as a String, use the single = to assign the text to it.

3. Describe three different data types.

Most programming languages support basic data types of integer numbers (of varying sizes), floating-point numbers (which approximate real numbers), characters, and Booleans.

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

An *expression* is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates a single value. Expressions are used to carry out any kind of arithmetic or logical operations.

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

Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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

bacon = 22

bacon + 1

Value of bacon will be 9

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

'spam' + 'spamspam'

'spam' \* 3

For both cases it will be ‘spamspamspam’

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

In python, Variable names cannot begin with a number.

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 will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.