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.

\* 🡪 mathematical operators

'hello' 🡪 string

-87.8 🡪 float

- 🡪 mathematical operators

/ 🡪 mathematical operators

* 🡪 mathematical operators

6 🡪 int

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.

Eg String x ="Welcome to SoloLearn" X is the Variable, and we declared it as a String

3. Describe three different data types.

|  |  |
| --- | --- |
| Text Type: | str |

Numeric Types: int, float, complex

Sequence Types: list, tuple, range

Mapping Type: dict

Set Types: set, frozenset

Boolean Type: bool

Binary Types: bytes, bytearray, memoryview

None Type: NoneType

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 to a single value.

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

Expressions are unique in meaning, while statements are two-sided in execution. For example, 1 has a certain value while go( ) may be executed or not. Statements are the whole structure, while expressions are the building blocks. For example, a line or a block of code is a statement

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam'

'spam' \* 3

'spamspamspam'

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

Because Eggs is string and 100 is an integer.

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.'

can only concatenate str (not "int") to str. 99 is an integer.