**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 :

\* = operators

‘Hello’ = string

-87.8 = integer

- = operators

/ = operators

+ = operators

6 = integer

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

Answer:

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 declare it as a String, use the single = to assign the text to it.

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

**Answer:**

Integer . float , list , datetime

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

Answer:

An expression is a combination of operators and operands that is interpreted to produce some other value. Expression an expression is evaluated as per the precedence of its operators. So that if there is more than one operator in an expression, their precedence decides which operation will be performed first. We have many different types of expressions in Python

**5.This assignment statements, like spam = 10. What is the difference between an**

**expression and a statement?**

Answer:

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**

Answer:

It’s value will be 23

**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:

Because 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?**

Answer:

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.’**

Answer:

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. '