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 1:

\* :- Mathematical Operator ( Multiplication )

'hello': - String

-87.8 :- Float

- :- Mathematical Operator (Subtraction)

/ :- Mathematical Operator (Division)

* :- Mathematical Operator (Addition)

6 :- Integer

2. What is the difference between string and variable?

Answer 2:

String is a datatype for the text data always in the form of “ ”. There are two kind of variables user defined and pre-defined. The user variable can store any kind of datatype.

The string is a pre-defined variable.

3. Describe three different data types.

Answer 3:

String: For text data always represented inside the quotes “ “.

Integer: The negative and positive natural numbers data like ……., -3, -2, -1, 0, 1,2,3,…..

Float: All the decimal number represented as a float like 2.3, 0.44, -3.22…..

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

Answer 4:

The expression is constructed with the help of variables and mathematical operators. Used for the calculation purpose.

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

Answer 5:

With the help of operators, the expression helps us to bring the multiple variables to the single value. While the statement is an instruction that python interpreter can execute.

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

bacon = 22

bacon + 1

Answer 6:

The bacon will be 22. As the value of bacon has not updated.

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

Answer 7:

'spam' + 'spamspam'

'spam' \* 3

Both the code is having same output as ‘spamspamspam’.

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

Answer 8:

The variable name does not start with numerical number.

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

Answer 9:

Integer: int(), Floating-point number: float(), String: str()

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

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

Answer 10:

Strings can’t be added with integers. To fix this

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