

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?

Variable is a like container that stores some value. the value may be any data type

Whereas string is one of the data type/value that can be stored in variable

3. Describe three different data types.

Strings, integers, float, Boolean, list, tuple etc

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

Expressions are made up of mathematical operators. these expression are used to evaluate the value

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

An expression evaluates to value . eg: 3+4 or a+b, (a+b)*c

Where as a statement doesn't evaluates to final value s=7

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

bacon = 22

bacon + 1

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?

Variable names can't be started with number, special characters etc except underscore

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

(int, float, str) these three functions can be used to get the value in respective data type format

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

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

Because we are concatenating string data type with integer data type