

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.

Values = 'hello' , -87.8, 6

Expression = *, - , / , +

2. What is the difference between string and variable?

Ans: The string is type of information that you want to store in the variable and variable is a store of information i.e it the name of the container who store the information.

3. Describe three different data types.

String: It is used for alphanumeric character, example: hello world, Alice, Bob123

Integer: It is used for whole number, example: 7, 12, 19

Float: It is used for decimal point, example: 7.5, 12.9, 19.21

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

Ans: An expression is a combination of operators, constants and variables. An expression may consist of one or more operands, and zero or more operators to produce a value .

Example: a+b

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

Ans: An expression is a combination of operators, constants and variables which will produce some value, where is statement not evaluated for the result.

Example:

X=25 # Statement

Y=X+25 # expression

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

bacon = 22

bacon + 1

Ans: 22

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?

Ans: Because variable name can't start from number and special characters except underscore(_), so 100 is invalid and eggs is valid

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

Ans: int(), float(), str()

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

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

Ans: Because we can concatenate string with number, correct one is 'I have eaten ' + '99' + ' burritos.'