

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?

Ans. String is a sequence of characters and variable is a reserved memory location.

3. Describe three different data types.

Ans. Numeric, Boolean, String

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

Ans. It is a combination of operators and operand. It is interpreted to produce some value.

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

Ans. Expression produces some value but the statement does not evaluate any result

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

bacon = 22

bacon + 1

Ans. Bacon contains 23

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

'spam' + 'spamspam'

'spam' * 3

Ans. The output from both the terms will be same which is 'spamspamspam'

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

Ans. These are the rules embedded that a variable name cannot start from a number

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

Ans. int(), float(), string()

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

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

Ans. Because the string can only concatenate string. This can be fix by making the 99 as string and after that expression will be like 'I have eaten ' + '99' + ' burritos.'