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?

Answer:

Variable: variable is used as an identifier to store a value in a memory location.

Strings: String is one of the variable type which is written between quotes (single or double).

3. Describe three different data types.

Answer:

Three different datatypes:

* Integer: Integer means of decimal numeric values without any floating points
* Float: Float means of floating points along with the decimal number
* Boolean: Boolean means of either Yes (1) or No (0)

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

Answer: An expression is a combination of values, variables, operators, and calls to functions. Expressions made up logical operation and statements.

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

Answer: Expressions only contains identifiers, literals and operators to perform a logical operations and statement means of a full line of code. In that sense, expressions are parts of statements.

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

bacon = 22

bacon + 1

Answer: 23

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

'spam' + 'spamspam'

'spam' \* 3

Answer: ‘spamspamspam’ , ‘spamspamspam’

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

Answer: Variable name should start with letter(a-zA-Z) or underscore (\_). So, eggs starts with letter it’s valid, on the other hand, 100 starts with number so it’s invalid.

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

Answer: int(), float(), str()

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

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

Answer: String can’t concate with numbers. So, just write the statement as 'I have eaten ' + ‘99’ + ' burritos.' It will work now.