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 are used to store values or data such as strings.

3. Describe three different data types.

Integer

floating-point number

string

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

Answer:

An expression is a combination of values and operators. All expressions evaluate (that is, reduce) to a single value.

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

Expression gives one value but statement does not do that.

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

bacon = 22

bacon + 1

answer: bacon =22. Value will still be same.

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

'spam' + 'spamspam'

'spam' \* 3

ANSWER: 'spamspamspam'

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

Answer:- A variable name must start with a letter or the underscore character and it can not start with number so 100 is invalid and eggs are valid.

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

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

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

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

Answer :-error because 99 is an integer, and only strings can be concatenated to other strings with the + .

Fix:- I have eaten ' + str(99) + ' burritos