Python basics assignment-1

1. In the given list, the values are 'hello', -87.8, 6 and the expressions are \*, -, /, and +.
2. A string is a data type that represents a sequence of characters, such as a word or a phrase. A variable is a named location in memory where a value can be stored and retrieved. A variable can hold any value, including a string, but a string is not a variable.
3. Three different data types are:

* Integer: a whole number, such as 1, 2, or 3
* Float: a number with a decimal point, such as 3.14 or 2.718
* String: a sequence of characters, such as "hello" or "goodbye"

1. An expression is made up of values and operators. All expressions produce a result, which can be a value or another expression.
2. An assignment statement, such as spam = 10, assigns a value to a variable. An expression is a combination of values and operators that produces a result.
3. After running the code, the variable bacon will contain the value 23 (22 + 1).
4. The values of the following terms should be:

* 'spam' + 'spamspam' = 'spamspamspam'
* 'spam' \* 3 = 'spamspamspam'

1. 'eggs' is a valid variable name because it starts with a letter and is followed by one or more letters, digits, or underscores. 100 is not a valid variable name because it starts with a digit. Variable names must start with a letter or an underscore.
2. The three functions that can be used to get the integer, floating-point number, or string version of a value are:

* int(): converts a value to an integer
* float(): converts a value to a floating-point number
* str(): converts a value to a string

1. This expression causes an error because the + operator cannot be used to concatenate a string and an integer. To fix the error, the integer 99 should be converted to a string using the str() function: 'I have eaten ' + str(99) + ' burritos.'