Define the following terms or concepts:

1. **Boolean**: A subset of algebra used for creating true/false statements.
2. **Strings**: Is represented as a sequence of characters enclosed within quotes.
3. **Lists**: An arranged set of data, often in row and column format.
4. **Variable**: A variable is a symbol or letter, such as "x" or "y," that represents a value.
5. **Function**: A relationship between defined values and one or more variables.
6. **Method**: A subroutine attached to a specific class defined in the source code of a program.
7. **Algorithm**: A set of instructions designed to perform a specific task.
8. **Parameter(s)**: A parameter or "argument" is a value that is passed into a function.
9. **Mutable**: State that can be changed after you make the object (cookie).
10. **Immutable**: None of the state can be changed.

Provide an example of each:

1. **Data Type**: Boolean: True or False, Character: a, Date: 03/01/2016
2. **Operator**: and, or, and not
3. **Comparison Operator**: a==b ; < > == != <= >=
4. **Boolean Literal**: >>> ls = [1, 2, 3]
   >>> 4 in ls
   >>> False
5. **Expression**: $total = $value1 + $value2;
6. **Statement**: report = 'profits were huge this year; everyone gets large bonuses.'
   if 'large bonuses' in report:
   print('Vacation time!')
7. **String**: ‘Hello world!’
8. **Integer**: >>> x = int (3)
   >>> x
   3
9. **Float**: `<img src="/jargon/f/image.jpg" alt="Image" style="float:right;" />`
10. **Function**: abs ( ), min ( ), max ( )
11. **String Method**: pets = ['ant', 'bat', 'cod', 'dog', 'elk']
12. list method; ls = [0, 1, 2, 3, 4, 5]
13. execution control structure; if temp > 86:
    print('It is hot!')
    print('Be sure to drink water.')
    print('Goodbye!')

14. conditional control structure;
    if temp > 86:
        print('It is hot!')
        print('Be sure to drink liquids.')
    else:
        print('It is not hot.')
        print('Bring a jacket.')
        print('Goodbye.')

15. iteration control structure;
>>> for fruit in ['pear', 'apple', 'orange', 'peach']:
    print(fruit.upper())
PEAR
APPLE
ORANGE
PEACH