1.) -a
2.) -A
3.) Print Working Directory
4.) CD
      a. . does nothing as . means current directory
      b. .. goes back one directory
      c. Just CD will take you to the home directory
      d. / takes you to the highest directory "/"
5.) CTRL + Z will close any program. Alternatively, most Linux commands have q or Q as the quit command.
6.)

Lab 1: Birthday Probability

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Abstract

The purpose of this lab is to calculate the probability of an x group of people having the same birthday assuming there are only 365 days a year and every day has an equal probability of being a birthday

Parameters

```python
In [1]: import random
        from collections import Counter
        import matplotlib.pyplot as plt

        group_size = 32
        number_of_simulations = 10000
```

Functions

Generates a list of birthdays

Param size: Size of the birthday list, default size of 23

Return:The randomly generated list of birthdays

```python
In [2]: def generate_birthdays(size = 23):
            '''
            Generates a list of randomized birthdays of a given size.
            If no size is given then the defualt size is 23
            '''
            randomlist = []
            for i in range(0, size):
                n = random.randint(1,365)
                randomlist.append(n)
            return randomlist
```

Filters a given birthday list to the ones that are in common

Param birthday_list: A list of birthdays

Return A list of birthdays that two or more people have in common

7.) Command line allows you to type rather than find a command. This can be helpful as all you need to do is know the command whereas in the GUI you have to navigate through the settings to find it. Additionally, Command line gives you the most control whereas the GUI is dependent on who created it. Badly designed GUI's will not have the full functionality of the command line.