Week 4 Homework

1. In next week, we will be looking at how to import files and read them. From the documentations below:
   https://docs.python.org/3/tutorial/inputoutput.html#reading-and-writing-files
   There is a parameter in open( ) called mode (the last one). When someone wrote 'r' into the mode, what does this mean? What about 'w'?

2. In statistics there are many distributions. These represents the probability of each random variables. Find out what examples that uses the following (common) distributions?
   a. Binomial distribution
   b. Multinomial distribution
   c. Poisson distribution
   d. Normal distribution

3. In data analytics, charts are how we present the data in. Explain what data and what types of charts are used in the following examples?
   a. Population growth of a city.
   b. A class of students joined a 100m competition, and obtained their results afterwards.
   c. People sampling one type of food.
   d. Time spent on using internet, sampled from 100 internet users in Australia.
   e. How many people used the word of interest on Facebook or Twitter.
   f. Federal election poll results.
   g. How many people retweeted the specific tweet.