**Project 1 Part 2 (Total 40 points)**

**Notes:**

* **Points** will also be awarded based on:
  1. How well the comments are written in both the codes to explain the solution for each part **(3 points)**
  2. Logic(s) are hard/soft coded, [here](https://www.pcmag.com/encyclopedia/term/hard-coded) is a short article explaining what is hard coding **(4 points)**
* You need to submit your .py files for the outputs

1. Use the “project\_1\_part\_2” file to answer the below questions:
   1. Total number of votes for each crop. Refer to Sheet 1 of the “sample analysis\_part\_2” attached within the project documents” **(3 points)**
      1. Draw a bar graph for this output with x and y axis labeled **(3 points)**
   2. Number of counts for each language at each site (site location can be identified by its unique IP Address). Refer to Sheet 2 **(3 points)**
      1. Draw a bar graph with language on the x axis and total count of each language on y axis **(3 points)**
   3. Name, Email Address and Site IP Address for each person who said “Yes” to “Would you like to learn more?” Refer to Sheet 3 **(3 points)**
   4. Total number of unique votes by each unique IP Address **(3 points)**
   5. Total votes for each crop by each unique IP Address. Refer to Sheet 4 **(3 points)**
   6. Divide each column in part e by the total number of people who voted in their respective unique IP Address. Refer to Sheet 5 **(3 points)**
   7. Using result from part f, sort in descending order of percentage for each crop by each unique IP Address. Refer to Sheet 6 **(3 points)**
   8. Repeat the analysis did in d) through g) for unique language instead of unique IP address **(6 points)**