**PyBank Project**

**This is the explanations on PyBank project.**

1. The first part is importing the packages. The packages are:  
   import os

import csv

1. Next phase is defining variables. Here I have defined**:**months = []  
   p = []  
   average\_change = 0  
   total\_months = 0  
   net\_change = []

1. Then I have defined the path using:  
   csvpath = os.path.join('Resources', 'budget\_data.csv')
2. To count the **“**average\_change = 0” and “total\_months = 0”, I assign value zero so I can then add up to it.
3. After that, I open the csv file and read it using the path.
4. To skip the header row I use “next(reader, None)”.
5. I start a loop for every row (“for row in reader:”).  
   I can count the months in the “months” list by counting each row in the first column and appending it to the months list
6. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
7. To add new candidates to the list when they come up.
8. I continue with loop afterwards building up a dictionary with candidates using the “candidate\_list.append(candidate)” and counting the number of candidates.
9. Finally, making the output path and file.
10. In the next stage, I have looped through the candidates and calculated the percentage of their votes rounded to two decimals.

“percentage = round(float(candidate\_dict[candidate])/float(total\_votes),2)”

Within the loop I have added an if-statement so that whoever gets the higher percentage can be assigned as the winner.  
 if votes > winning\_vote:

            winning\_vote = votes

            winner = candidate

1. Then printing the percentages.