# HOMEWORLO3 – PYBANK & PYPOLL

### **PyBank**

### **OUTPUT FILE:**

The output file will describe the overall Profit Analysis based on the CSV sent. Please find below a printout of the TXT file generated.

```
Financial Analysis
------
Total Months: 86
Total: 38382578.0
Average Change: 446309.05
Greatest Increase in Profits: Feb-2012 ($1170593)
Greatest Decrease in Profits: Sep-2013 ($-1196225)
```

#### CODE:

Although the code has comments, I have divided it into three main parts:

Read the CSV File

```
import csv
file_path = 'Resources/budget_data.csv'

greatestIncrease = [str(0),0.0]
greatestDecrease = [str(0),0.0]
totalAmount = 0.0
numberMonths = 0
print(type(totalAmount))

with open(file_path) as csvfile:
csvreader = csv.reader(csvfile,delimiter=',')
```

Calculate and iterate across the CSV File

```
#Iterate over the file
for row in csvreader:
numberMonths += 1
totalAmount += float(row[1])
# #calculate Greatest Increase and Decrease
if float(greatestIncrease[1]) < float(row[1]):
greatestIncrease = row
if float(greatestDecrease[1]) > float(row[1]):
greatestDecrease = row

averageChange = totalAmount/numberMonths
```

• Print and Create output file

## **PyPoll**

## **OUTPUT FILE:**

The output file describes the overall results of a Political campaign, highlighting the total number of votes, the % of each candidate, and the Winner of the election.

# CODE:

The strategy behind this code is different from the one used in the example above. Since the goal of this essay was not to use Pandas to summarize the data somehow and get the results, I have coded a function that runs all the main calculations we will need based on the "Candidate Name Field."

- Calculation & Output Function:
  - o Iterate Part

#### Output Part:

Read the file and Function application:

```
file_path = "Resources/election_data.csv"

output_path = "Analysis/election_results.txt"

candidate = []

with open(file_path) as csvfile:
    csvreader = csv.reader(csvfile, delimiter = ',')

csv_header = next(csvreader)

#iterate over the file
for row in csvreader:
    candidate.append(row[2])

analysis/election_results.txt"

candidate = []

with open(file_path) as csvfile:
    csvreader = csv.reader(csvfile, delimiter = ',')

csv_header = next(csvreader)

#iterate over the file
for row in csvreader:
    candidate.append(row[2])

elections(candidate,output_path)
```