**Python Challenge: PyBank & PyPoll**

**### Overview**

This Python Challenge demonstrates practical data analysis skills through two real-world scenarios: PyBank for financial analysis and PyPoll for election results processing. Using Python scripting, the project analyzes datasets (budget\_data.csv and election\_data.csv) to calculate key metrics like profit trends, vote distributions, and winners. The goal is to showcase Python's efficiency over manual spreadsheet methods by automating calculations, generating terminal outputs, and exporting results to text files. Designed for learning purposes, it reinforces core programming concepts—file handling, data manipulation, and version control while providing a foundation for scalable data solutions. ReadMe provides comprehensive instructions for completing the Python Challenge assignment, which consists of two data analysis tasks:

PyBank (Financial Analysis) and PyPoll (Election Analysis)

**### PayBank Required Calculations And Results**

**1.** The total number of months in the dataset

**2**. The net total amount of "Profit/Losses"

**3.** The average of changes in "Profit/Losses" over the period

**4.** The greatest increase in profits (date and amount)

**5.** The greatest decrease in profits (date and amount)

**Financial Analysis**

**Total Months**: 86

**Total:** $22564198

**Average Change**: $-8311.11

**Greatest Increase in Profits:** Aug-16 ($1862002)

**Greatest Decrease in Profits:** Feb-14 ($-1825558)

**## PyPoll Required Calculations And Results**

**1.** Total number of votes cast

**2**. Complete list of candidates who received votes

**3.** The percentage of votes each candidate won

**4**. The total number of votes each candidate won

**5**. The winner of the election based on popular vote

**Election Results**

**Total Votes**: 369711

**Charles Casper Stockham:** 23.049% (85213)

**Diana DeGette:** 73.812% (272892)

**Raymon Anthony Doane**: 3.139% (11606)

**Winner:** Diana DeGette

**Repository Link:** https://github.com/Arisleyda02/python-challenge.git