**PyBank Analysis**

Total Months: 86

Total Profit/Losses: $22564198

Average Change in Profit/Losses: $-8311.11

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

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

CODE

import os

import csv

# Construct the file path

csvpath = os.path.join('/', 'Users', 'pamala', 'Documents', 'GitHub', 'python\_challenge', 'Pybank', 'Resources', 'budget\_data.csv')

# Initialize variables

total\_months = 0

Total\_Profit\_Losses = 0

profit\_changes = [] # List to store the changes in profit/losses

previous\_month\_profit = None # To store the profit/loss of the previous month

greatest\_increase = ["", 0] # To store the date and amount of the greatest increase in profits

greatest\_decrease = ["", 0] # To store the date and amount of the greatest decrease in profits

# Open the file and read the contents

try:

with open(csvpath, newline='') as csvfile:

csvreader = csv.reader(csvfile, delimiter=',')

# Skip the header row

header = next(csvreader)

# Read the first row to initialize previous\_month\_profit

first\_row = next(csvreader)

previous\_month\_profit = int(first\_row[1])

total\_months = 1

Total\_Profit\_Losses += previous\_month\_profit

# Process each row in the CSV file

for row in csvreader:

# Increment the total months count

total\_months += 1

# Current month's profit/loss

current\_month\_profit = int(row[1])

Total\_Profit\_Losses += current\_month\_profit

# Calculate change from previous month

change = current\_month\_profit - previous\_month\_profit

profit\_changes.append(change)

# Check for greatest increase

if change > greatest\_increase[1]:

greatest\_increase[0] = row[0]

greatest\_increase[1] = change

# Check for greatest decrease

if change < greatest\_decrease[1]:

greatest\_decrease[0] = row[0]

greatest\_decrease[1] = change

# Update previous\_month\_profit to current month

previous\_month\_profit = current\_month\_profit

# Calculate the average change in "Profit/Losses"

average\_change = sum(profit\_changes) / len(profit\_changes) if profit\_changes else 0

print(f"Total Months: {total\_months}")

print(f"Total Profit/Losses: ${Total\_Profit\_Losses}")

print(f"Average Change in Profit/Losses: ${average\_change:.2f}")

print(f"Greatest Increase in Profits: {greatest\_increase[0]} (${greatest\_increase[1]})")

print(f"Greatest Decrease in Profits: {greatest\_decrease[0]} (${greatest\_decrease[1]})")

except FileNotFoundError:

print(f"File not found: {csvpath}")

except Exception as e:

print(f"An error occurred: {str(e)}")