# Import the file and get past the headers

import os

import csv

budget\_data\_csv = ("PyBank\_Resources\_budget\_data.csv")

# Set initial values

greatest\_month\_increase = ""

greatest\_month\_decrease = ""

total\_months = 1

total\_profits\_losses = 0

greatest\_increase = -1000000

greatest\_decrease = 1000000

changes = []

with open(budget\_data\_csv, newline="") as csvfile:

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

    budget\_header = next(csvfile)

    # Count the number of months

    previous\_row = next(csvreader)

    total\_profits\_losses = int(previous\_row[1])

    for row in csvreader:

        total\_months = total\_months + 1

    # Ticker the profits and losses

        total\_profits\_losses = total\_profits\_losses + int(row[1])

    # Average the changes in profits and losses

        change = int(row[1]) - int(previous\_row[1])

        changes.append(change)

        previous\_row = row

    # Find the maximum and minimum change

        if change > greatest\_increase:

            greatest\_increase = change

            greatest\_month\_increase = row[0]

        elif change < greatest\_decrease:

            greatest\_decrease = change

            greatest\_month\_decrease = row[0]

    average\_change = total\_profits\_losses / total\_months

    # Print the number of months

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

    # Print the net profits/losses

    print(f'Total: ${total\_profits\_losses}')

    # Print the average change

    print(f'Average Change: {average\_change}')

# Print the maximum and minimum change

print(f'Greatest Increase in Profits: {greatest\_increase}')

print(f'Greatest Decrease in Profits: {greatest\_decrease}')

# Export results to text file

with open("profitLoss.txt","w") as file:

    file.write(

        f'Total Months: {total\_months}\n'

        f'Total: ${total\_profits\_losses}\n'

        f'Average Change: {average\_change}\n'

        f'Greatest Increase in Profits: {greatest\_month\_increase}, {greatest\_increase}\n'

        f'Greatest Decrease in Profits: {greatest\_month\_decrease}, {greatest\_decrease}'

    )

file.close()