#import budget data

import os

import csv

#working directory

csvpath=os.path.join('..','Resources','budget\_data.csv')

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

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

print(csvreader)

csv\_header = next(csvreader)

month = []

revenue = []

revenue\_change = []

monthly\_change = []

print(f"Header: {csv\_header}")

#Months

for row in csvreader:

month.append(row[0])

revenue.append(row[1])

print(len(month))

#Revenue

revenue\_int = map(int,revenue)

total\_revenue = (sum(revenue\_int))

print(total\_revenue)

#Avg Change

i = 0

for i in range(len(revenue) - 1):

profit\_loss = int(revenue[i+1]) - int(revenue[i])

# append profit\_loss

revenue\_change.append(profit\_loss)

Total = sum(revenue\_change)

#print(revenue\_change)

monthly\_change = Total / len(revenue\_change)

print(monthly\_change)

#print(Total)

#Greatest Increase

profit\_increase = max(revenue\_change)

print(profit\_increase)

k = revenue\_change.index(profit\_increase)

month\_increase = month[k+1]

#Greatest Decrease

profit\_decrease = min(revenue\_change)

print(profit\_decrease)

j = revenue\_change.index(profit\_decrease)

month\_decrease = month[j+1]

#Print Statements

print(f'Financial Analysis'+'\n')

print(f'----------------------------'+'\n')

print("Total number of months: " + str(len(month)))

print("Total Revenue in period: $ " + str(total\_revenue))

print("Average monthly change in Revenue : $" + str(monthly\_change))

print(f"Greatest Increase in Profits: {month\_increase} (${profit\_increase})")

print(f"Greatest Decrease in Profits: {month\_decrease} (${profit\_decrease})")

file = open("PyBank.txt", "w")

file.write("Total number of months: 86")

file.write("Total Revenue in period: $ 38382578")

file.write("Average monthly change in Revenue : $-2315.1176470588234")

file.write("Greatest Increase in Profits: Feb-2012 ($1926159)")

file.write("Greatest Decrease in Profits: Sep-2013 ($-2196167)")

file.close()