#import modules

import os

import csv

#set path for file

budget\_data\_csv = os.path.join("...PyBank/Resources/budget\_data.csv")

#set the output of the text file

text\_path = "output.txt"

#Set variables

total\_months = 0

total\_revenue = 0

revenue = []

previous\_revenue = 0

month\_of\_change = []

revenue\_change = 0

greatest\_decrease = ["", 9999999]

greatest\_increase = ["", 0]

revenue\_change\_list = []

revenue\_average = 0

#open the csv file

with open('budget\_data.csv') as csvfile:

csvreader = csv.DictReader(csvfile)

#Loop through to find total months

for row in csvreader:

#Count the total of months

total\_months += 1

#Calculate the total revenue over the entire period

total\_revenue = total\_revenue + int(row["Profit/Losses"])

#Calculate the average change in revenue between months over the entire period

revenue\_change = float(row["Profit/Losses"])- previous\_revenue

previous\_revenue = float(row["Profit/Losses"])

revenue\_change\_list = revenue\_change\_list + [revenue\_change]

month\_of\_change = [month\_of\_change] + [row["Date"]]

#The greatest increase in revenue (date and amount) over the entire period

if revenue\_change>greatest\_increase[1]:

greatest\_increase[1]= revenue\_change

greatest\_increase[0] = row['Date']

#The greatest decrease in revenue (date and amount) over the entire period

if revenue\_change<greatest\_decrease[1]:

greatest\_decrease[1]= revenue\_change

greatest\_decrease[0] = row['Date']

revenue\_average = sum(revenue\_change\_list)/len(revenue\_change\_list)

#Print the results

with open(text\_path, 'w') as file:

print("Financial Analysis\n")

print("---------------------\n")

print("Total Months: %d\n" % total\_months)

print("Total Revenue: $%d\n" % total\_revenue)

print("Average Revenue Change $%d\n" % revenue\_average)

print("Greatest Increase in Revenue: %s ($%s)\n" % (greatest\_increase[0], greatest\_increase[1]))

print("Greatest Decrease in Revenue: %s ($%s)\n" % (greatest\_decrease[0], greatest\_decrease[1]))