#PyBank

import os

import csv

Desktop = os.path.join("..","budget\_data.csv")

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

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

csv\_header = next(csvreader)

dates = []

total\_rev = 0

max\_profit = 0

min\_profit = 0

for row in csvreader:

dates.append(row[0])

total\_rev += int(row[1])

if(max\_profit<int(row[1])):

max\_profit = int(row[1])

max\_profit\_month = row[0]

if(min\_profit>int(row[1])):

min\_profit = int(row[1])

min\_profit\_month = row[0]

print("\nFinancial Analysis\n-----------------------------------------------")

print(f"Total Month: {len(dates)}")

print(f"Total Revenue : ${total\_rev}")

print(f"Average Change : ${round(total\_rev/len(dates),2)}")

print(f"Greatest Increase in Profits : {max\_profit\_month} ({max\_profit})")

print(f"Greatest Decrease in Profits : {min\_profit\_month} ({min\_profit})")

file = open('output.txt','w')

file.write("Financial Analysis")

file.write("\n-----------------------------------------------")

file.write("\nTotal Month: " + str(len(dates)))

file.write("\nTotal Revenue : $" + str(total\_rev))

file.write("\nAverage Change : $" + str(round(total\_rev/len(dates),2)))

file.write("\nGreatest Increase in Profits : " + str(max\_profit\_month) + " (" + str(max\_profit) + ")")

file.write("\nGreatest Decrease in Profits : " + str(min\_profit\_month) + " (" + str(min\_profit) + ")")

file.close()

Financial Analysis

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Total Month: 86

Total Revenue : $38382578

Average Change : $446309.05

Greatest Increase in Profits : Feb-2012 (1170593)

Greatest Decrease in Profits : Sep-2013 (-1196225)

#PyPoll

import os

import csv

Desktop = os.path.join("..","election\_data.csv")

totalVotes = 0

candidates = []

voteCount = []

winnerVoteCount = 0

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

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

csv\_header = next(csvreader)

for row in csvreader:

totalVotes += 1

if(row[2] not in candidates):

candidates.append(row[2])

voteCount.append(0)

candidateIndex = candidates.index(row[2])

voteCount[candidateIndex] += 1

print(f"\nElection Results\n-------------------------------------------")

print(f"Total votes: {totalVotes}")

print("-------------------------------------------")

for x in range(len(candidates)):

votePercent = round((voteCount[x]/totalVotes)\*100,3)

print(f"{candidates[x]}: {votePercent}% ({voteCount[x]})")

if (winnerVoteCount<voteCount[x]):

winnerVoteCount = voteCount[x]

winner = candidates[x]

print("-------------------------------------------")

print(f"Winner: {winner}")

print("-------------------------------------------")

file = open('output.txt','w')

file.write("Election Results")

file.write("\n-------------------------------------------")

file.write("\nTotal votes:" + str(totalVotes))

file.write("\n-------------------------------------------")

for x in range(len(candidates)):

votePercent = round((voteCount[x]/totalVotes)\*100,3)

file.write("\n" + str(candidates[x]) +" : " + str(votePercent)

+ "% ("+ str(voteCount[x]) + ")")

file.write("\n-------------------------------------------")

file.write("\nWinner: " + str(winner))

file.write("\n-------------------------------------------")

file.close()

Election Results

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Total votes: 3521001

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Khan: 63.0% (2218231)

Correy: 20.0% (704200)

Li: 14.0% (492940)

O'Tooley: 3.0% (105630)

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Winner: Khan

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