PyBank

# Try 1

import os

import csv

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

# It prints every row and column on its own so that every line has its own list

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

csvreader = csv.reader(csvfile)

#for line in csvreader:

#print (line)

#This skips the first row of the CSV file.

next(csvreader, None)

#The total number of months included in the dataset

row\_count = sum(1 for row in csvfile)

print("There are " + str(row\_count) + " months in this dataset.")

#The total net amount of "Profit/Losses" over the entire period

print(['Profit/Losses'].value\_counts())

#The average change in "Profit/Losses" between months over the entire period

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

# Try 2

import os

import csv

PyBankFile = os.path.join('budget\_data.csv')

#def getPercentages(row):

#total\_profit = total += int(row[1])

#average = avg(row[2])

#greatestinc = max(row[2])

#greatestdec = min(row[2])

# Read in the CSV file

with open(PyBankFile, 'r', newline = '') as csvfile:

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

#for line in csvreader:

#print (line)

#This skips the first row of the CSV file.

next(csvreader, None)

#The total number of months included in the dataset

row\_count = sum(1 for row in csvfile)

print("There are " + str(row\_count) + " months in this dataset.")

for row in csvreader:

#The total net amount of "Profit/Losses" over the entire period

total\_profit = 0

total\_profit = sum(row[2])

print("The total profits are " + str(total\_profit) + ".")

#The average change in "Profit/Losses" between months over the entire period

#print (average)

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

#print(greatestinc)

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

#print(greatestdec)

# Try 3

import os

import csv

# Path to collect data from the folder

pybank = os.path.join('budget\_data.csv')

# Define the function and have it accept the data as its sole parameter

def getPercentages(pybank):

#This skips the first row of the CSV file.

next(csvreader, None)

#The total number of months included in the dataset

row\_count = sum(1 for row in csvfile)

# Total matches can be found by adding wins, losses, and draws together

totalMatches = int(wrestlerData[1]) + int(wrestlerData[2]) + int(wrestlerData[3])

# Win percent can be found by dividing the the total wins by the total matches and multiplying by 100

winPercent = (int(wrestlerData[1]) / totalMatches) \* 100

# Loss percent can be found by dividing the total losses by the total matches and multiplying by 100

lossPercent = (int(wrestlerData[2]) / totalMatches) \* 100

# Draw percent can be found by dividing the total draws by the total matches and multiplying by 100

drawPercent = (int(wrestlerData[3]) / totalMatches) \* 100

# If the loss percentage is over 50, typeOfWrestler is "Jobber". Otherwise it is "Superstar".

if(lossPercent > 50):

typeOfWrestler = "Jobber"

else:

typeOfWrestler = "Superstar"

# Print out the wrestler's name and their percentage stats

print("There are " + str(row\_count) + " months in this dataset.")

print(f"Stats for {wrestlerData[0]}")

print(f"WIN PERCENT: {str(winPercent)}")

print(f"LOSS PERCENT: {str(lossPercent)}")

print(f"DRAW PERCENT: {str(drawPercent)}")

print(f"{wrestlerData[0]} is a {typeOfWrestler}")

# Try 4

import os

import csv

# Path to collect data from the folder

pybank = os.path.join('budget\_data.csv')

# Define the function and have it accept the data as its sole parameter

def getPercentages(pybank):

total\_profit = 0

#average = avg(row[2])

#greatestinc = max(row[2])

#greatestdec = min(row[2])

# Read in the CSV file

with open(pybank, 'r', newline = '') as csvfile:

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

for line in csvreader:

#print (line)

#This skips the first row of the CSV file.

next(csvreader, None)

#The total number of months included in the dataset

row\_count = sum(1 for row in csvfile)

#The total net amount of "Profit/Losses" over the entire period

total\_profit = sum('Profit/Losses')

#The average change in "Profit/Losses" between months over the entire period

#print (average)

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

#print(greatestinc)

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

#print(greatestdec)

print("There are " + str(row\_count) + " months in this dataset.")

print("The total profits are " + str(total\_profit) + ".")

# Read in the CSV file

with open(wrestlingCSV, 'r') as csvfile:

# Split the data on commas

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

header = next(csvreader)

# Prompt the user for what wrestler they would like to search for

nameToCheck = input("What wrestler do you want to look for? ")

# Loop through the data

for row in csvreader:

# If the wrestler's name in a row is equal to that which the user input, run the 'getPercentages()' function

if(nameToCheck == row[0]):

getPercentages(row)

# Try 5

import os

import csv

# Path to collect data from the folder

pybank = os.path.join('budget\_data.csv')

# Read in the CSV file

with open(pybank, 'r', newline = '') as csvfile:

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

#This skips the first row of the CSV file.

next(csvreader, None)

months = 0

total\_profit = 0

monthly\_change = []

pre\_revenue = 0

average\_change = 0

greatest\_increase = 0

greatest\_month = ""

lowest\_increase = 0

for line in csvreader:

#print (line)

#The total number of months included in the dataset

#row\_count = sum(1 for row in csvfile)

months = months + 1

#The total net amount of "Profit/Losses" over the entire period

total\_profit = total\_profit + int(line[1])

#The average change in "Profit/Losses" between months over the entire period

diff = int(line[1]) - pre\_revenue

monthly\_change.append(diff)

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

##Create a for loop to go through the monthly\_change

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

#print(greatestdec)

#The average change in "Profit/Losses" between months over the entire period

monthly\_change = monthly\_change[1:]

average\_change = sum(monthly\_change) / len(monthly\_change)

#print("There are " + str(months) + " months in this dataset.")

#print("The total profits are $" + str(total\_profit) + ".")

#print("The average change is $" + str(average\_change) + ".")

# Final Try

import os

import csv

# Path to collect data from the folder

pybank = os.path.join('budget\_data.csv')

# Read in the CSV file

with open(pybank, 'r', newline = '') as csvfile:

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

#This skips the first row of the CSV file.

next(csvreader, None)

months = 0

total\_profit = 0

monthly\_change = []

pre\_revenue = 0

average\_change = 0

greatest\_increase = 0

greatest\_month = ""

lowest\_increase = 0

lowest\_month = ""

month = []

amount = []

output = ""

for line in csvreader:

month.append(line[0])

amount.append(int(line[1]))

#print (line)

#The total number of months included in the dataset

#row\_count = sum(1 for row in csvfile)

months = months + 1

#The total net amount of "Profit/Losses" over the entire period

total\_profit = total\_profit + int(line[1])

#The average change in "Profit/Losses" between months over the entire period

diff = int(line[1]) - pre\_revenue

monthly\_change.append(diff)

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

#greatest\_increase = max(monthly\_change)

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

#lowest\_increase = min(monthly\_change)

#The average change in "Profit/Losses" between months over the entire period

monthly\_change = monthly\_change[1:]

average\_change = sum(monthly\_change) / len(monthly\_change)

#use the index value of greatest\_increase to find the month

greatest\_increase = max(amount)

greatest\_month = month[amount.index(greatest\_increase)]

#use the index value of lowest\_increase to find the month

lowest\_increase = min(amount)

lowest\_month = month[amount.index(lowest\_increase)]

print("Financial Analysis")

print("-----")

print("There are " + str(months) + " months in this dataset.")

print("The total profits are $" + str(total\_profit) + ".")

print("The average change is $" + str(average\_change) + ".")

print("The greatest increase in profits is $" + str(greatest\_increase) + " in " + (greatest\_month) + ".")

print("The lowest increase in profits is $" + str(lowest\_increase) + " in " + (lowest\_month) + ".")

#Export a text file with the results

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

file.write("Financial Analysis"'\n' "-----" '\n'"There are " + str(months) + " months in this dataset."

'\n' "The total profits are $" + str(total\_profit) + "." '\n' "The average change is $" + str(average\_change) + "."

'\n'"The greatest increase in profits is $" + str(greatest\_increase) + " in " + (greatest\_month) + "."

'\n'"The lowest increase in profits is $" + str(lowest\_increase) + " in " + (lowest\_month) + ".")

file.close()

PyPoll

# Try 1

import os

import csv

# Path to collect data from the folder

electdata = os.path.join('election\_data.csv')

total\_votes\_cast = 0

list\_of\_candidates = []

candidate\_vote\_counter = {}

winner\_name = ""

winner\_votes = 0

# Read in the CSV file

with open(electdata, 'r', newline = '') as csvfile:

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

#This skips the first row of the CSV file.

next(csvreader, None)

for line in csvreader:

#The total number of votes cast included in the dataset

total\_votes\_cast = total\_votes\_cast + 1

#A complete list of candidates who received votes

current\_candidate = line[2]

if current\_candidate not in list\_of\_candidates:

list\_of\_candidates.append(current\_candidate)

candidate\_vote\_counter[current\_candidate] = 0

else:

candidate\_vote\_counter[current\_candidate] = candidate\_vote\_counter[current\_candidate] + 1

#print(list\_of\_candidates)

#The total number of votes each candidate won

#print(candidate\_vote\_counter)

#The percentage of votes each candidate won

for candidate in candidate\_vote\_counter:

candidate\_votes = candidate\_vote\_counter.get(candidate)

#print(candidate\_votes)

#print(candidate)

percentageofvotes = ((candidate\_votes / total\_votes\_cast) \*100)

print(percentageofvotes)

#The winner of the election based on popular vote

if candidate\_votes > winner\_votes:

winner\_votes = candidate\_votes

winner\_name = candidate

print(str(total\_votes\_cast) + " votes were cast.")

print("Here is our complete list of candidates:" + str(list\_of\_candidates))

print("Here is the total of their votes: " + str(candidate\_vote\_counter))

#print("Here is the list of candidates and their vote percentage" + str(percentageofvotes))

print("The winner of our election is: " + winner\_name)

#Export a text file with the results

#file = open("pypollscript.txt","w")

#file.write("Poll Analysis"'\n'"--------------"'\n'

#+ str(total\_votes\_cast) + " votes were cast."

#'\n'"The list of candidates are")

#file.close()