#imported modules

import os

import csv

#variables are given values

winner = ""

candidate = ""

candidate\_votes = {}

candidate\_percentage = {}

winner\_votes = 0

total\_votes = 0

percentlist = []

#joins path components so csv file can be read under one file

filepath = os.path.join("C:/Users/giffo/Desktop/GTATL201908DATA3/GTATL201908DATA3/02 - Homework/03-Python/Instructions/PyPoll/Resources/election\_data.csv")

#opens file to read, skips header, set total value of stocks to original or original plus next vote

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

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

header = next(csvreader)

first\_row = next(csvreader)

for row in csvreader:

total\_votes = total\_votes + 1

candidate = row[2]

#sets candidate to the candidate votes giving the number a correlation to a name

if candidate in candidate\_votes:

candidate\_votes[candidate] = candidate\_votes[candidate] + 1

#sets the value of the number of votes and name equal to 1

else:

candidate\_votes[candidate] = 1

#sets percentage of the votes

#sets a list of objects as candidate\_percentage and total\_votes so list can accomodate all arguments

#sets percentlist as a dictionary

for person in candidate\_votes:

candidate\_percentages = float(candidate\_votes[person]) / float(total\_votes)\*100

print(person,candidate\_percentages)

temp\_tuple = (candidate\_percentages, total\_votes)

percentlist.append((person,temp\_tuple)

if candidate\_votes[person] > winner\_votes:

winner\_votes = candidate\_votes[person]

winner = person

cdict = dict(percentlist)

print(percentlist)

#print information

print("Election Results")

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

print(f"Total Votes: {total\_votes}")

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

for person in cdict:

print("person: ",person, "votes: ", cdict[person])

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

print(f"Winner: {winner}")

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

Election Results

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Total Votes: 3521000

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person: Correy votes: (20.0, 3521000)

person: Khan votes: (63.0, 3521000)

person: Li votes: (14.000000000000002, 3521000)

person: O'Tooley votes: (3.0, 3521000)

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Winner: Khan

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#export to .txt file

output = open("output1.txt", "w")

line1 = "Election Results \n"

line2 = "--------------- \n"

line3 = str(f"Total Votes: {total\_votes} \n")

line4 = "--------------- \n"

for person in cdict:

line4 = line4 + "person: "+ str(person)+ " votes: "+ str(cdict[person]) + "\n"

line5 = "---------------\n"

line6 = str(f"Winner: {winner} \n")

line7 = "---------------"

final = line1 + line2 + line3 + line4 + line5 + line6 + line7

num = output.write(final)

print(num)

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:

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