"""PyPoll Homework"""

# Import OS module to create file paths across operating systems

import os

# Import Module for reading CSV file

import csv

# Set path to collect data from the Resources folder

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

# Create a dictionary placeholder

candidate\_dict = {}

# Open the data file

with open (election\_data) as election\_data:

    csv\_reader = csv.reader(election\_data)

# Read the data

    csvreader = csv.reader(election\_data)

    # Read the header

    csv\_header = next(csvreader)

    # Initialize the total votes

    total\_votes = 0

    # Loop through the data file

    for row in csvreader:

            candidate = row[2]

            total\_votes +=1

            # If the candidate is in the dictionary add to vote count

            if candidate in candidate\_dict:

                vote = candidate\_dict.get(candidate)

                vote +=1

                candidate\_dict[candidate] = vote

            #otherwise add the candidate and set the vote to 1

            else:

                candidate\_dict[candidate] = 1

    # Initialize the winner variables

    winner = ""

    winner\_votes = 0

    # Set the path for the txt file

    output\_path=os.path.join("Outputs", "Poll\_output.txt")

    # Open the file

    with open (output\_path, 'w', newline='') as textfile:

        # Print to the terminal

        print(f"Election Results")

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

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

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

# Write to the textfile

        textfile.write("Election Results\n")

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

        textfile.write(f"Total Votes: {total\_votes}\n")

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

# Loop through the candidates

        for candidate in candidate\_dict:

            votes = candidate\_dict[candidate]

            if votes > winner\_votes:

                winner = candidate

                winner\_votes = votes

            print(f"{candidate}: {100\*votes/total\_votes:.3f}% ({votes})")

            # Write to textfile

            textfile.write(f"{candidate}: {100\*votes/total\_votes:.3f}% ({votes})\n")

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

        print(f"Winner: {winner}")

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

        # Write to the textfile

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

        textfile.write(f"Winner: {winner}\n")

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

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