import os, csv

from pathlib import Path

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

total\_votes = 0

khan\_votes = 0

correy\_votes = 0

li\_votes = 0

otooley\_votes = 0

with open(csvpath,newline="", encoding="utf-8") as elections:

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

header = next(csvreader)

for row in csvreader:

total\_votes +=1

if row[2] == "Khan":

khan\_votes +=1

elif row[2] == "Correy":

correy\_votes +=1

elif row[2] == "Li":

li\_votes +=1

elif row[2] == "O'Tooley":

otooley\_votes +=1

candidates = ["Khan", "Correy", "Li","O'Tooley"]

votes = [khan\_votes, correy\_votes,li\_votes,otooley\_votes]

dict\_candidates\_and\_votes = dict(zip(candidates,votes))

key = max(dict\_candidates\_and\_votes, key=dict\_candidates\_and\_votes.get)

# Print a the summary of the analysis

khan\_percent = (khan\_votes/total\_votes) \*100

correy\_percent = (correy\_votes/total\_votes) \* 100

li\_percent = (li\_votes/total\_votes)\* 100

otooley\_percent = (otooley\_votes/total\_votes) \* 100

# Print the summary table

print(f"Election Results")

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

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

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

print(f"Khan: {khan\_percent:.3f}% ({khan\_votes})")

print(f"Correy: {correy\_percent:.3f}% ({correy\_votes})")

print(f"Li: {li\_percent:.3f}% ({li\_votes})")

print(f"O'Tooley: {otooley\_percent:.3f}% ({otooley\_votes})")

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

print(f"Winner: {key}")

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

# Output files

# Assign output file location and with the pathlib library

output\_file = Path('..','Resources','election\_summary.txt')

with open(output\_file,"w") as file:

# Write methods to print to Elections\_Results\_Summary

file.write(f"Election Results")

file.write("\n")

file.write(f"----------------------------")

file.write("\n")

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

file.write("\n")

file.write(f"----------------------------")

file.write("\n")

file.write(f"Khan: {khan\_percent:.3f}% ({khan\_votes})")

file.write("\n")

file.write(f"Correy: {correy\_percent:.3f}% ({correy\_votes})")

file.write("\n")

file.write(f"Li: {li\_percent:.3f}% ({li\_votes})")

file.write("\n")

file.write(f"O'Tooley: {otooley\_percent:.3f}% ({otooley\_votes})")

file.write("\n")

file.write(f"----------------------------")

file.write("\n")

file.write(f"Winner: {key}")

file.write("\n")

file.write(f"----------------------------")