Election Results Audit

**The Purpose of the Audit**

The purpose of the Election Audit was to show the results of the election for 3 different counties for the 3 Candidates. The Election Commission also wanted to the percentage of votes for each candidate. The percentage of votes from the county with the highest amount was also requested by the commission.

**The Results of the Audit**

After the audit was completed, it was concluded that Diana DeGette had won the election with receiving 73.8% of the votes in the 3 counties. Also from the results, it showed that the votes from Denver had the highest percentage of votes from the 3 counties. In the following set of bullets, you will see what was asked and how it was calculated.

* Total votes of the election
* Each candidate’s total vote count and percentage was also reported
* for candidate\_name in candidate\_votes:
* # Retrieve vote count and percentage
* votes = candidate\_votes.get(candidate\_name)
* vote\_percentage = float(votes) / float(total\_votes) \* 100
* candidate\_results = (
* f"{candidate\_name}: {vote\_percentage:.1f}% ({votes:,})\n")
* The winner of the election, winning vote count and winning percentage was reported
* winning\_candidate\_summary = (
* f"-------------------------\n"
* f"Winner: {winning\_candidate}\n"
* f"Winning Vote Count: {winning\_count:,}\n"
* f"Winning Percentage: {winning\_percentage:.1f}%\n"
* f"-------------------------\n")
* print(winning\_candidate\_summary)
* Each county and its total vote count were printed to the terminal
* pct\_countyvote = countyvote / total\_votes \* 100
* county\_results = (
* f"{county}"
* f": "
* f"{pct\_countyvote:.1f}% ("
* f"{countyvote:,})\n")
* Each county and its percentage of total votes was printed to the terminal
* The county with the largest number of votes was also printed to the terminal
* if (votes > winning\_count) and (vote\_percentage > winning\_percentage):
* winning\_count = votes
* winning\_candidate = candidate\_name
* winning\_percentage = vote\_percentage

**The Summary of the Audit**

The commission can use this script for any election to get voter count and the percentage of votes per county and/or candidate. It can also be used to get the percentage of votes for each candidate by county as well if the script is modified some.