
0.0.1 Question 4b

Create two line plots below. The first should show the relationship between average number of votes and runtime; the second should show the relationship between average rating and runtime. The runtime should be on the x-axis for both plots. Use the columns from the table generated in the previous part, `res_q4`. If your SQL query is correct you should get some interesting plots below. This might explain why directors keep going with a particular range of runtimes.

Note: Please use `sns` or `plt` functions for plotting. Plotly `px` does not export to the PDF properly. Please include descriptive titles and labels. If your plot does not show on the generated PDF, please upload a PDF with a screenshot of your code and the plot.

In [24]:
```
plt.figure(figsize=(10, 4))
plt.subplot(1, 2, 1) # DO NOT MODIFY THIS LINE
#average number of votes and runtime
plt.plot(res_q4['runtimeBin'], res_q4['averageNumVotes'])
plt.title('Average Number of Votes VS Runtime')
plt.xlabel('Runtime (minutes)')
plt.ylabel('Average Number of Votes')

plt.subplot(1, 2, 2) # DO NOT MODIFY THIS LINE
plt.plot(res_q4['runtimeBin'], res_q4['averageRating'])
plt.title('Average Rating VS Runtime')
plt.xlabel('Runtime (minutes)')
plt.ylabel('Average Rating')
```

Out[24]:
```
Text(0, 0.5, 'Average Rating')
```