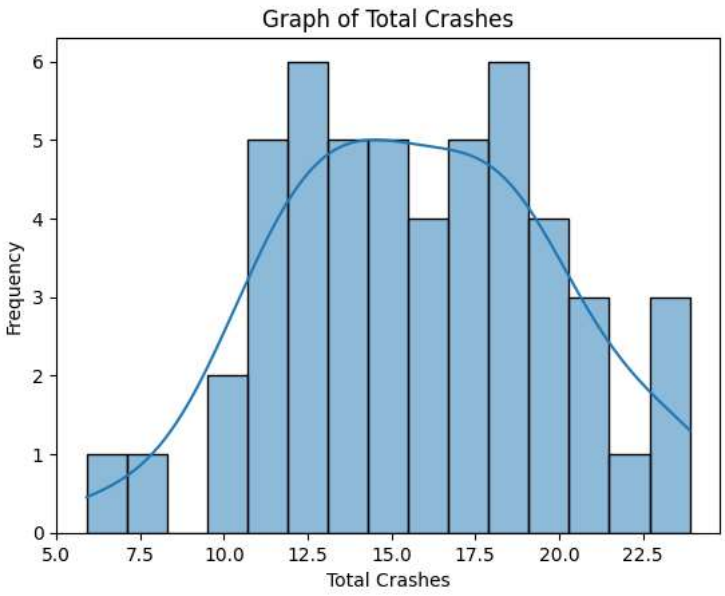
Question 1

```
import seaborn as sb
import matplotlib.pyplot as plt

crash_data = sb.load_dataset("car_crashes")
crash_data
```

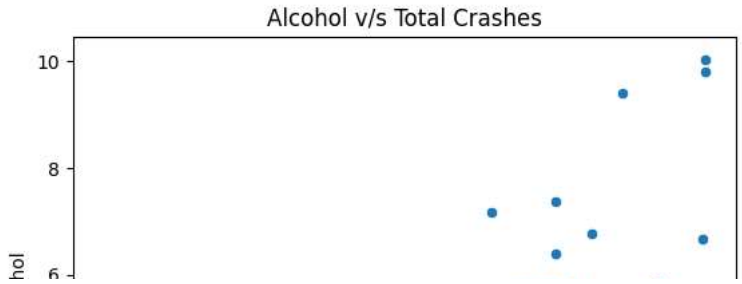
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses	a
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08	
1	18.1	7.421	4.525	16.290	17.014	1053.48	133.93	
2	18.6	6.510	5.208	15.624	17.856	899.47	110.35	
3	22.4	4.032	5.824	21.056	21.280	827.34	142.39	
4	12.0	4.200	3.360	10.920	10.680	878.41	165.63	
5	13.6	5.032	3.808	10.744	12.920	835.50	139.91	
6	10.8	4.968	3.888	9.396	8.856	1068.73	167.02	
7	16.2	6.156	4.860	14.094	16.038	1137.87	151.48	
8	5.9	2.006	1.593	5.900	5.900	1273.89	136.05	
9	17.9	3.759	5.191	16.468	16.826	1160.13	144.18	
10	15.6	2.964	3.900	14.820	14.508	913.15	142.80	
11	17.5	9.450	7.175	14.350	15.225	861.18	120.92	

```
sb.histplot(crash_data["total"], bins=15,kde=True)
plt.xlabel("Total Crashes")
plt.ylabel("Frequency")
plt.title("Graph of Total Crashes")
plt.show()
```



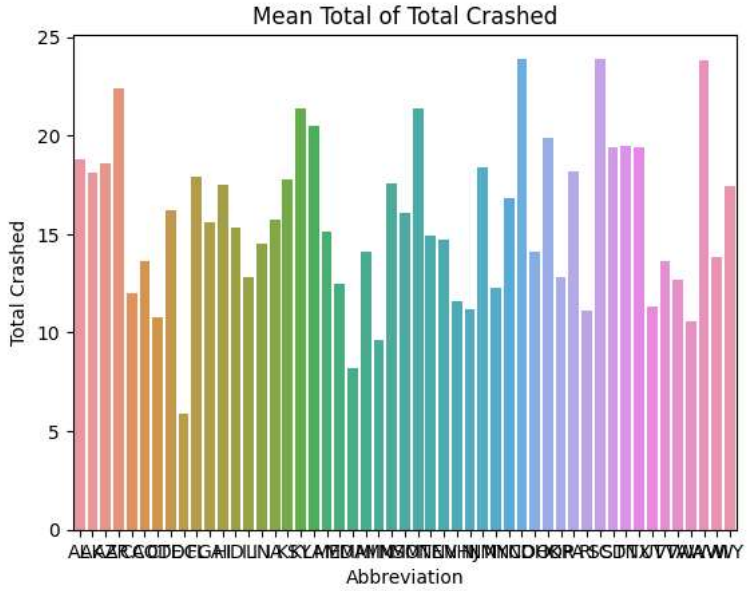
Question 2

```
sb.scatterplot(x="total", y="alcohol", data=crash_data)
plt.xlabel("Total Crashes")
plt.ylabel("Alcohol")
plt.title("Alcohol v/s Total Crashes")
plt.show()
```



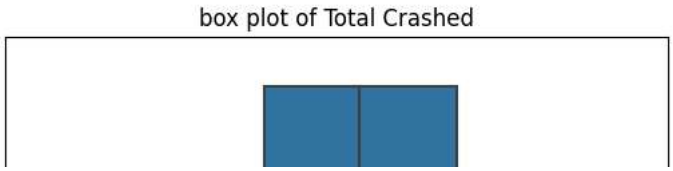
Question 3

```
sb.barplot(x="abbrev",y="total", data=crash_data)
plt.xlabel("Abbreviation")
plt.ylabel("Total Crashed")
plt.title("Mean Total of Total Crashed")

plt.show()
```



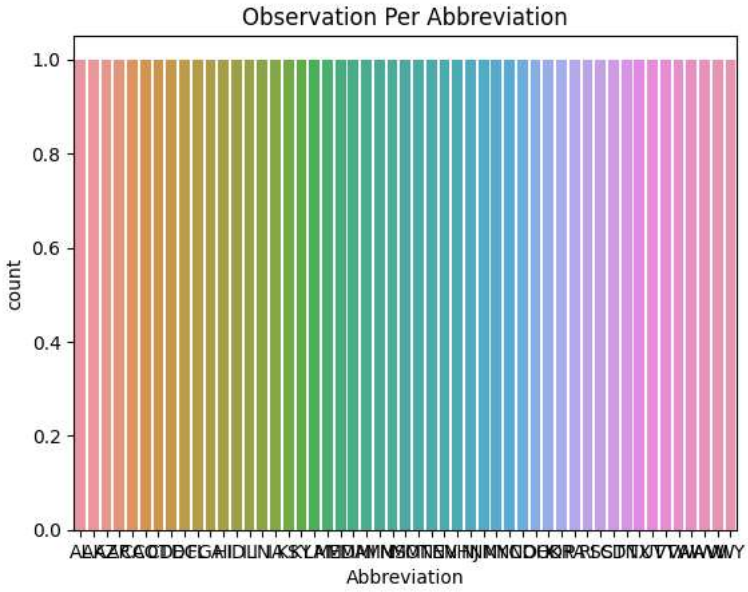
Question 4

```
sb.boxplot(x="total",data=crash_data)
plt.xlabel("Total Crashes")
plt.title("box plot of Total Crashed")

plt.show()
```



Question 5

```
sb.countplot(x="abbrev",data=crash_data)
plt.xlabel("Abbreviation")
plt.title("Observation Per Abbreviation")

plt.show()
```

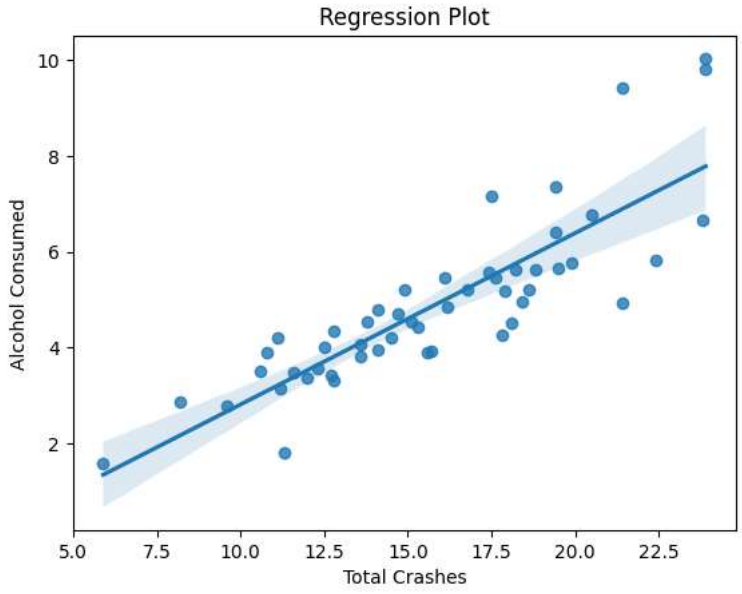


Question 6

```
sb.violinplot(x="alcohol", data=crash_data)
plt.xlabel("Alcohol Consumed")
plt.title("Violin Plot of Alcohol Consumed")

plt.show()
```

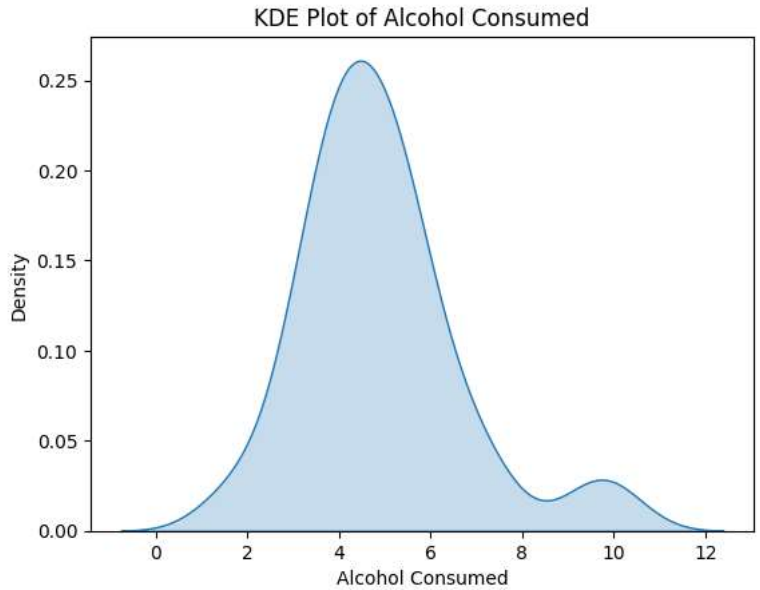
Question 7

```
sb.regplot(x="total", y="alcohol", data=crash_data)
plt.xlabel("Total Crashes")
plt.ylabel("Alcohol Consumed")

plt.title("Regression Plot")

plt.show()
```



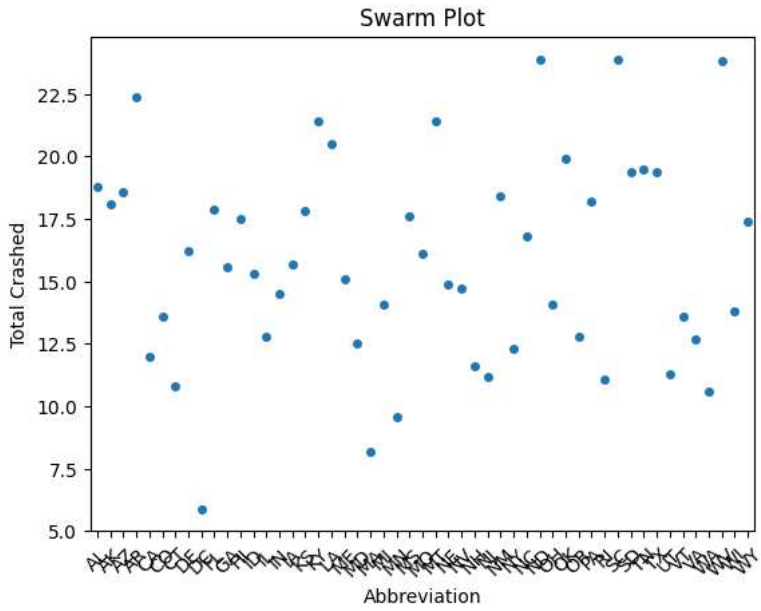
Question 8

```
sb.kdeplot(crash_data["alcohol"], fill=True)
plt.xlabel("Alcohol Consumed")
plt.title("KDE Plot of Alcohol Consumed")

plt.show()
```



Question 9

```
sb.swarmplot(x="abbrev", y="total", data=crash_data)

plt.xlabel("Abbreviation")
plt.ylabel("Total Crashed")
plt.title("Swarm Plot")

plt.xticks(rotation=45)

plt.show()
```



Question 10

```
plt.figure(figsize=(10,6))
sb.boxplot (x="abbrev",y="total", data=crash_data)

plt.xlabel("Abbreviation")
plt.ylabel("Total Crashed")
plt.xticks(rotation=45)

plt.title("Box Plot")

plt.show()
```