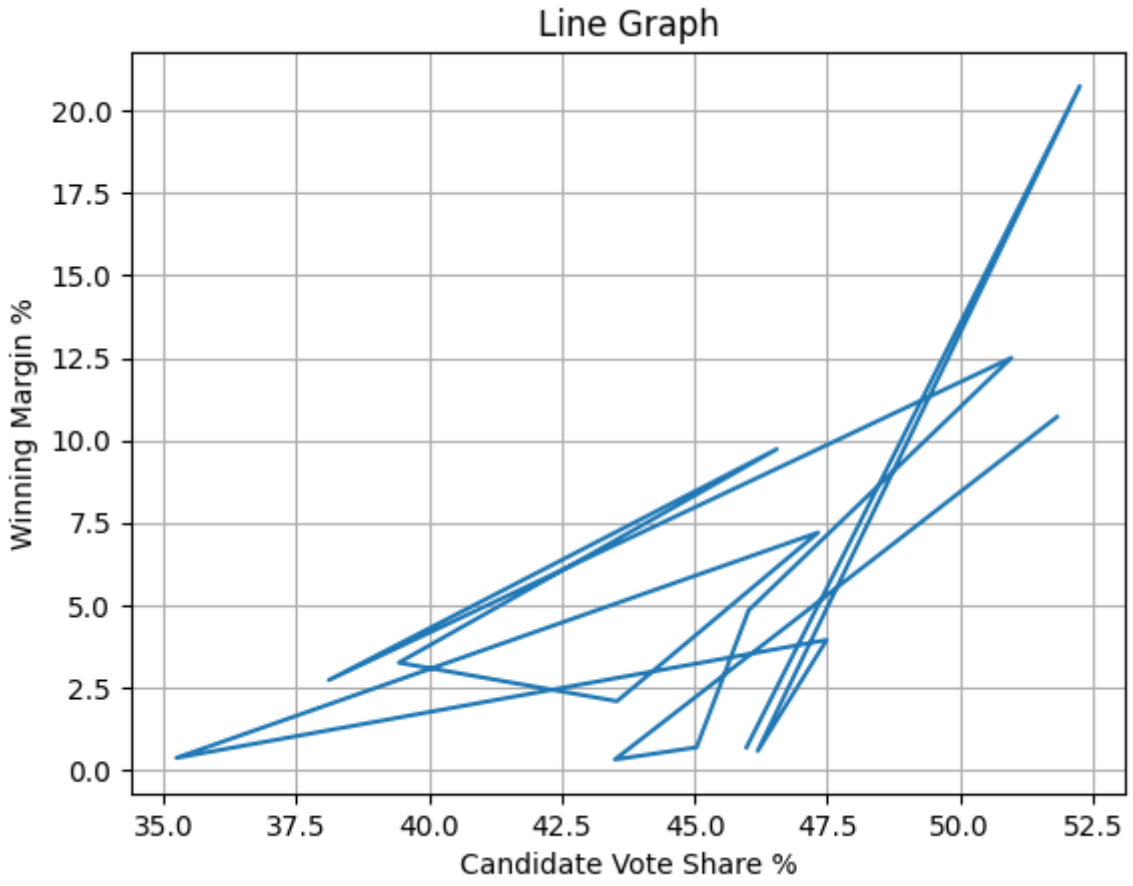
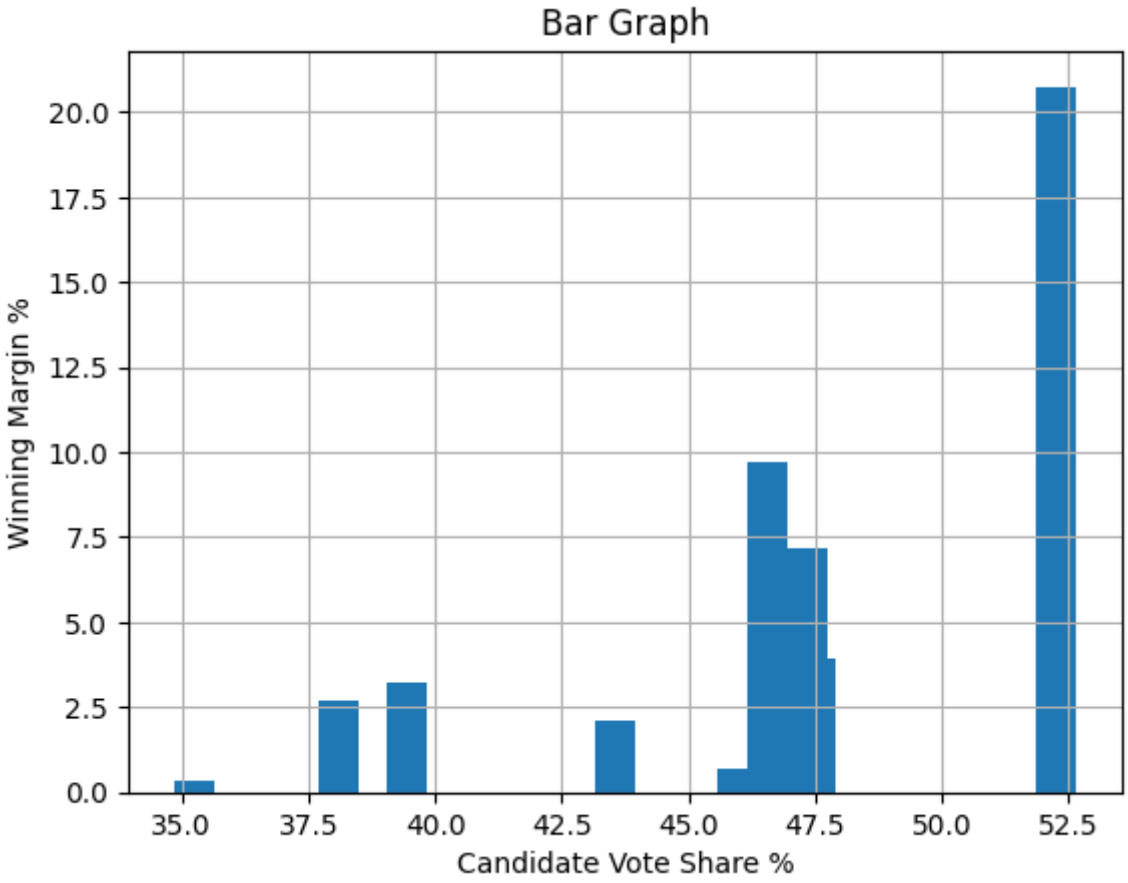
Q2. Perform the Exploratory Data Analysis on your domain-based dataset and demonstrate the retrieved insights using “Matplotlib” modules. Visualize hidden insights using appropriate plots (graphs) [Usage of line plot and scatter plot are mandatory]

In [ ]:
```
import pandas as pd
import matplotlib.pyplot as plt

df = pd.read_csv("./lok Shabha Result 2019.csv")

df_15_rows = df.head(15)
Candidate_Vote_Share = df_15_rows['Candidate Vote Share %'].tolist()
Winning_Margin = df_15_rows['Winning Margin %'].tolist()

plt.plot(Candidate_Vote_Share, Winning_Margin)
plt.title("Line Graph")
plt.xlabel("Candidate Vote Share %")
plt.ylabel("Winning Margin %")
plt.grid(True)

# Show the graph
plt.show()
```

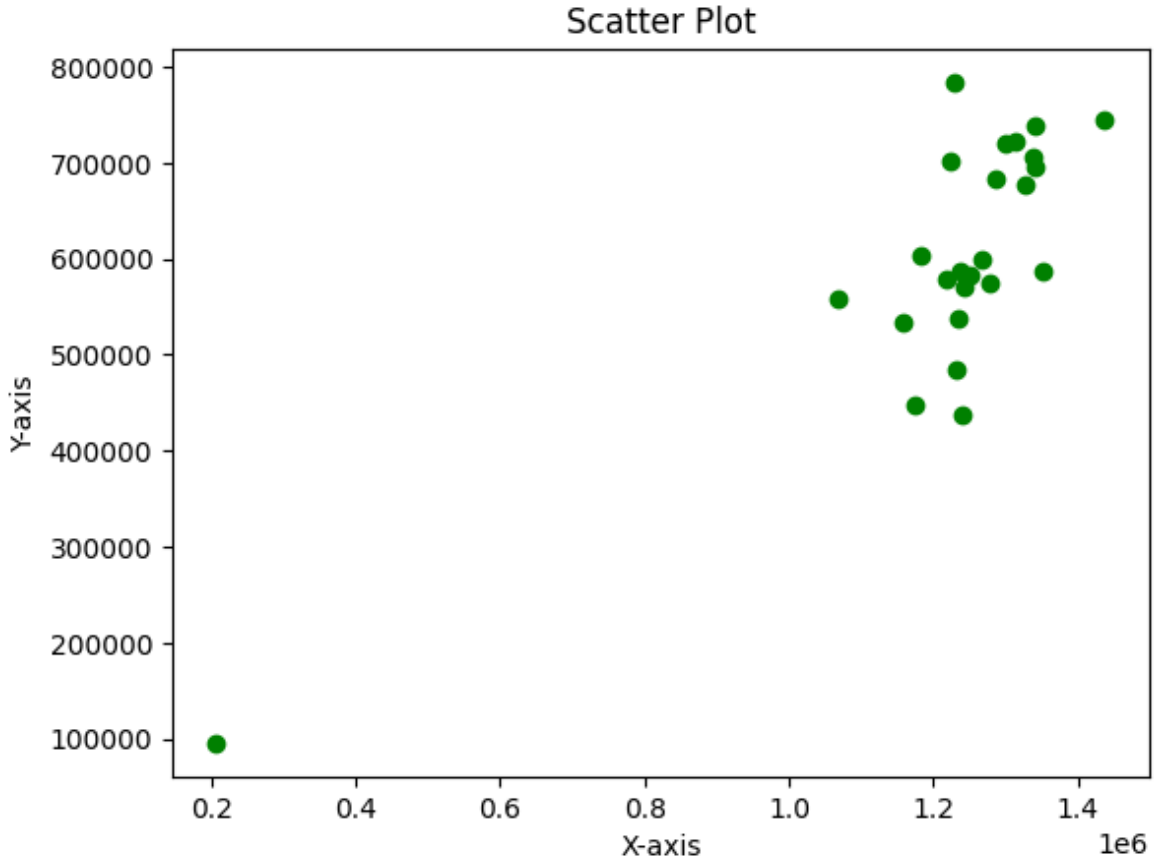


In [ ]:
```
import pandas as pd
import matplotlib.pyplot as plt

df = pd.read_csv('./lok Shabha Result 2019.csv')
```

```
df_10_rows = df.head(10)

Candidate_Vote_Share = df_10_rows['Candidate Vote Share %'].tolist()
Winning_Margin = df_10_rows['Winning Margin %'].tolist()

plt.bar(Candidate_Vote_Share, Winning_Margin)
plt.title("Bar Graph")
plt.xlabel("Candidate Vote Share %")
plt.ylabel("Winning Margin %")
plt.grid(True)
plt.show()
```



In [ ]:
```
import pandas as pd
import matplotlib.pyplot as plt

df = pd.read_csv('./lok Shabha Result 2019.csv')
df_25_rows = df.head(25)
Valid_Votes=df_25_rows['Valid Votes'].tolist()
Candidate_Votes=df_25_rows['Candidate Votes'].tolist()
plt.scatter( Valid_Votes,Candidate_Votes,marker='o', color='green', label
plt.title("Scatter Plot")
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
# plt.legend()
plt.show()
```


Scatter Plot
800000
700000
600000
500000
400000
300000
200000
100000
Y-axis
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1e6
X-axis