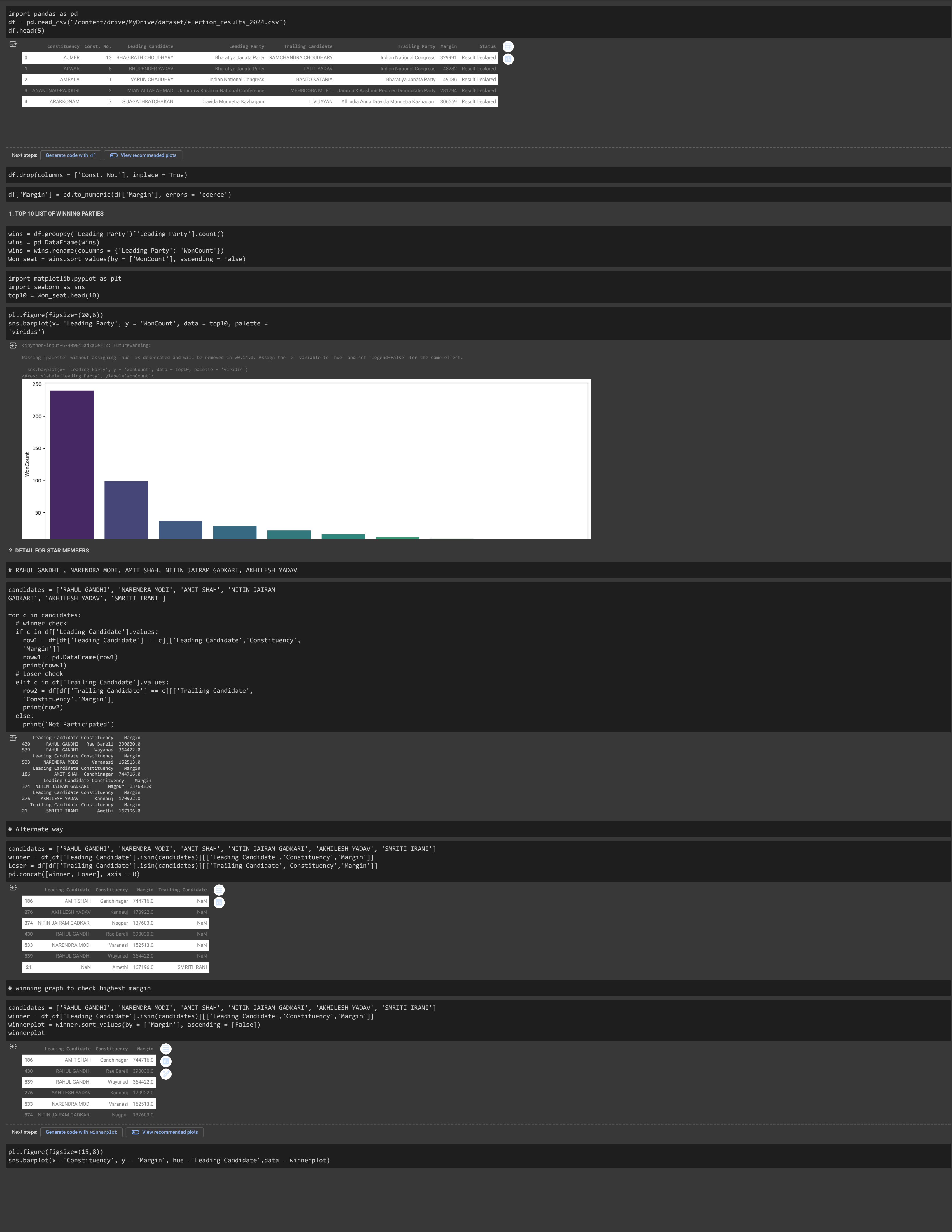


```
import pandas as pd
df = pd.read_csv("/content/drive/MyDrive/dataset/election_results_2024.csv")
df.head(5)
```

	Constituency	Const. No.	Leading Candidate	Leading Party	Trailing Candidate	Trailing Party	Margin	Status
0	AJMER	13	BHAGIRATH CHOUDHARY	Bharatiya Janata Party	RAMCHANDRA CHOUDHARY	Indian National Congress	329991	Result Declared
1	ALWAR	8	BHUPENDER YADAV	Bharatiya Janata Party	LALIT YADAV	Indian National Congress	48282	Result Declared
2	AMBALA	1	VARUN CHAUDHRY	Indian National Congress	BANTO KATARIA	Bharatiya Janata Party	49036	Result Declared
3	ANANTNAG-RAJOURI	3	MIAN ALTAF AHMAD	Jammu & Kashmir National Conference	MEHBOOBA MUFTI	Jammu & Kashmir Peoples Democratic Party	281794	Result Declared
4	ARAKKONAM	7	S JAGATHRATCHAKAN	Dravida Munnetra Kazhagam	L VIJAYAN	All India Anna Dravida Munnetra Kazhagam	306559	Result Declared

```
df.drop(columns = ['Const. No.'], inplace = True)
```

```
df['Margin'] = pd.to_numeric(df['Margin'], errors = 'coerce')
```

1. TOP 10 LIST OF WINNING PARTIES

```
wins = df.groupby('Leading Party')['Leading Party'].count()
wins = pd.DataFrame(wins)
wins = wins.rename(columns = {'Leading Party': 'WonCount'})
Won_seat = wins.sort_values(by = ['WonCount'], ascending = False)
```

```
import matplotlib.pyplot as plt
import seaborn as sns
top10 = Won_seat.head(10)
```

```
plt.figure(figsize=(20,6))
sns.barplot(x= 'Leading Party', y = 'WonCount', data = top10, palette =
'viridis')
```

```
<ipython-input-6-409845ad2a6e>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

  sns.barplot(x= 'Leading Party', y = 'WonCount', data = top10, palette = 'viridis')
<Axes: xlabel='Leading Party', ylabel='WonCount'>
```

2. DETAIL FOR STAR MEMBERS

```
# RAHUL GANDHI , NARENDRA MODI, AMIT SHAH, NITIN JAIRAM GADKARI, AKHILESH YADAV
```

```
candidates = ['RAHUL GANDHI', 'NARENDRA MODI', 'AMIT SHAH', 'NITIN JAIRAM
GADKARI', 'AKHILESH YADAV', 'SMRITI IRANI']

for c in candidates:
  # winner check
  if c in df['Leading Candidate'].values:
    row1 = df[df['Leading Candidate'] == c][['Leading Candidate','Constituency',
    'Margin']]
    roww1 = pd.DataFrame(row1)
    print(roww1)
  # Loser check
  elif c in df['Trailing Candidate'].values:
    row2 = df[df['Trailing Candidate'] == c][['Trailing Candidate',
    'Constituency','Margin']]
    print(row2)
  else:
    print('Not Participated')
```

```
    Leading Candidate Constituency    Margin
430      RAHUL GANDHI   Rae Bareli  390030.0
539      RAHUL GANDHI      Wayanad  364422.0
    Leading Candidate Constituency    Margin
533     NARENDRA MODI     Varanasi  152513.0
    Leading Candidate Constituency    Margin
186         AMIT SHAH   Gandhinagar  744716.0
        Leading Candidate Constituency    Margin
374  NITIN JAIRAM GADKARI       Nagpur  137603.0
    Leading Candidate Constituency    Margin
276    AKHILESH YADAV      Kannauj  170922.0
   Trailing Candidate Constituency    Margin
21       SMRITI IRANI       Amethi  167196.0
```

```
# Alternate way
```

```
candidates = ['RAHUL GANDHI', 'NARENDRA MODI', 'AMIT SHAH', 'NITIN JAIRAM GADKARI', 'AKHILESH YADAV', 'SMRITI IRANI']
winner = df[df['Leading Candidate'].isin(candidates)][['Leading Candidate','Constituency','Margin']]
Loser = df[df['Trailing Candidate'].isin(candidates)][['Trailing Candidate','Constituency','Margin']]
pd.concat([winner, Loser], axis = 0)
```

	Leading Candidate	Constituency	Margin	Trailing Candidate
186	AMIT SHAH	Gandhinagar	744716.0	NaN
276	AKHILESH YADAV	Kannauj	170922.0	NaN
374	NITIN JAIRAM GADKARI	Nagpur	137603.0	NaN
430	RAHUL GANDHI	Rae Bareli	390030.0	NaN
533	NARENDRA MODI	Varanasi	152513.0	NaN
539	RAHUL GANDHI	Wayanad	364422.0	NaN
21	NaN	Amethi	167196.0	SMRITI IRANI

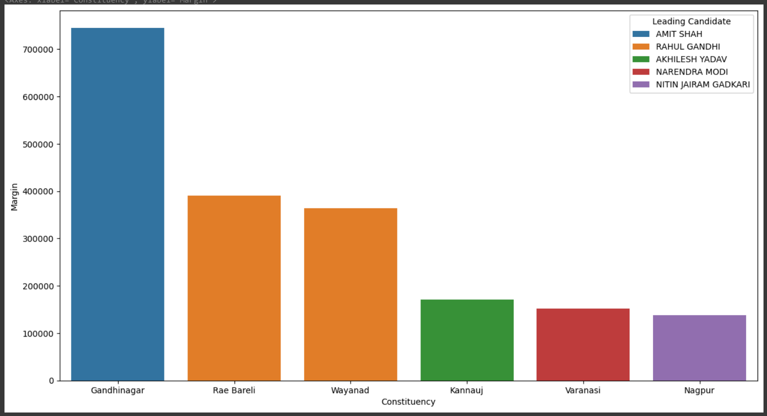
```
# winning graph to check highest margin
```

```
candidates = ['RAHUL GANDHI', 'NARENDRA MODI', 'AMIT SHAH', 'NITIN JAIRAM GADKARI', 'AKHILESH YADAV', 'SMRITI IRANI']
winner = df[df['Leading Candidate'].isin(candidates)][['Leading Candidate','Constituency','Margin']]
winnerplot = winner.sort_values(by = ['Margin'], ascending = [False])
winnerplot
```

	Leading Candidate	Constituency	Margin
186	AMIT SHAH	Gandhinagar	744716.0
430	RAHUL GANDHI	Rae Bareli	390030.0
539	RAHUL GANDHI	Wayanad	364422.0
276	AKHILESH YADAV	Kannauj	170922.0
533	NARENDRA MODI	Varanasi	152513.0
374	NITIN JAIRAM GADKARI	Nagpur	137603.0

```
plt.figure(figsize=(15,8))
sns.barplot(x ='Constituency', y = 'Margin', hue ='Leading Candidate',data = winnerplot)
```

```
<Axes: xlabel='Constituency', ylabel='Margin'>
```



3. Highest and lowest margin victory candidate

```
# Candidate Name | Margin -> cond: Name from leading list
```

```
df['Margin'] = pd.to_numeric(df['Margin'], errors = 'coerce')
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 543 entries, 0 to 542
Data columns (total 7 columns):
 #   Column             Non-Null Count  Dtype  
---  ------             --------------  -----  
 0   Constituency       543 non-null    object 
 1   Leading Candidate  543 non-null    object 
 2   Leading Party      543 non-null    object 
 3   Trailing Candidate 542 non-null    object 
 4   Trailing Party     542 non-null    object 
 5   Margin             542 non-null    float64
 6   Status             543 non-null    object 
dtypes: float64(1), object(6)
memory usage: 29.8+ KB
```

```
Victory = df[['Leading Candidate', 'Leading Party', 'Margin']]
Victory = Victory.sort_values(by=['Margin'], ascending=[False])
print(Victory)
```

```
                 Leading Candidate            Leading Party     Margin
221                 SHANKAR LALWANI    Bharatiya Janata Party  1175092.0
157                 RAKIBUL HUSSAIN  Indian National Congress  1012476.0
525           SHIVRAJ SINGH CHOUHAN    Bharatiya Janata Party   821408.0
384                       C R PATIL    Bharatiya Janata Party   773551.0
186                       AMIT SHAH    Bharatiya Janata Party   744716.0
..                              ...                       ...        ...
226             RAO RAJENDRA SINGH    Bharatiya Janata Party     1615.0
236         RABINDRA NARAYAN BEHERA    Bharatiya Janata Party     1587.0
40                ADV ADOOR PRAKASH  Indian National Congress      684.0
357         RAVINDRA DATTARAM WAIKAR                 Shiv Sena       48.0
493  MUKESHKUMAR CHANDRAKAANT DALAL    Bharatiya Janata Party        NaN

[543 rows x 3 columns]
```

```
Ask = str(input('Want to see Top or Bottom list?: T/B'))
if(Ask == 'T'):
  a= int(input('Enter the top value to display'))
  print(Victory.head(a))
else:
  b = int(input('Enter the bottom value to display'))
  print(Victory.tail(b))
```

```
Want to see Top or Bottom list?: T/BB
Enter the bottom value to display5
                 Leading Candidate            Leading Party  Margin
226             RAO RAJENDRA SINGH    Bharatiya Janata Party  1615.0
236         RABINDRA NARAYAN BEHERA    Bharatiya Janata Party  1587.0
40                ADV ADOOR PRAKASH  Indian National Congress   684.0
357         RAVINDRA DATTARAM WAIKAR                 Shiv Sena    48.0
493  MUKESHKUMAR CHANDRAKAANT DALAL    Bharatiya Janata Party     NaN
```

```
# This is formatted as code
```

4. Vote % distribution by party

```
# Leading Party details
```

```
# Total Votes by party
# sum(Votes) filtered by leading and trailing party
# graph: x: sum(votes by party) y: Margin column
```

```
leadingvotes = df.groupby('Leading Party')['Margin'].sum()
leadingvotes = pd.DataFrame(leadingvotes)
leadingvotes = leadingvotes.sort_values(by = 'Margin', ascending = False)
```

```
def vote(x, leadingvotes, margin_col):
  per = x / leadingvotes[margin_col].sum()
  per = per*100
  return(per)
```

```
leadingvotes['Perct_Vote'] = leadingvotes['Margin'].apply(lambda x: vote(x, leadingvotes,'Margin'))
leadingvotes = leadingvotes.reset_index()
```

```
lead_top10 = leadingvotes.head(10).reset_index()
lead_top10
```

	Leading Party	Margin	Perct_Vote
0	Bharatiya Janata Party	46081536.0	52.369104
1	Indian National Congress	13005922.0	14.780507
2	Dravida Munnetra Kazhagam	5081582.0	5.774935
3	All India Trinamool Congress	4910963.0	5.581036
4	Telugu Desam	3660927.0	4.160440
5	Samajwadi Party	2869566.0	3.261102
6	Janata Dal (United)	1386413.0	1.575581
7	Shiv Sena (Uddhav Balasaheb Thackrey)	1015430.0	1.153980
8	Communist Party of India (Marxist)	746237.0	0.848057
9	Lok Janshakti Party(Ram Vilas)	720603.0	0.818925

Next steps: Generate code with `lead_top10` View recommended plots

```
plt.pie(leadingvotes['Margin'], labels=leadingvotes['Leading Party'], autopct='%1.1f%%', startangle=140)
```

```
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  Text(-0.26035756175670727, 1.0687440947374178, 'Lok Janshakti Party(Ram Vilas)'),
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```

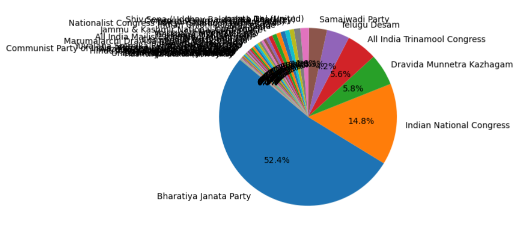

```
# Trailing Party details
```

```
Trailing_votes = df.groupby('Trailing Party')['Margin'].sum().reset_index()
Trailing_votes = Trailing_votes.sort_values(by = 'Margin', ascending = False)

def trail(x,Trailing_votes,Margin_col):
  t = x/Trailing_votes['Margin'].sum()
  t = t*100
  return(t)

Trailing_votes['Tperc'] = Trailing_votes['Margin'].apply(lambda x : trail(x,Trailing_votes,'Margin'))
Trailplot = Trailing_votes.head(8)
```

```
sns.relplot(x = 'Trailing Party', y = 'Margin', data = Trailplot, kind = 'line', height = 10, aspect = 2.5)
```

```
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```

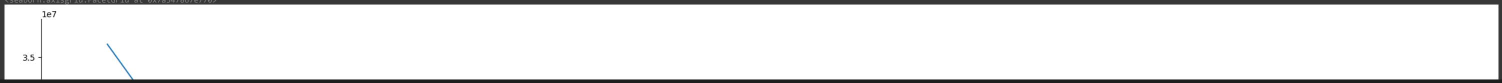

```
plt.pie(Trailing_votes['Margin'], labels = Trailing_votes['Trailing Party'], autopct = '%1.1f%%', startangle = 140)
```

```
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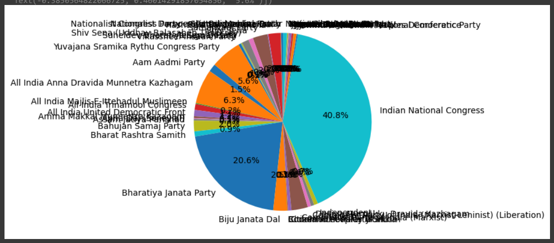

ENTER THE CONSTITUEMCY TO GET CANDIDATES DETAILS

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df['Constituency'] = df['Constituency'].str.upper()
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```
df[df['Constituency'] == 'AJMER'][['Leading Candidate','Leading Party',
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	Leading Candidate	Leading Party	Margin
0	BHAGIRATH CHOUDHARY	Bharatiya Janata Party	329991.0

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Ask = str(input('Enter constituency name:__'))
Ask = Ask.upper()
if(Ask in df['Constituency'].values):
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