```
import requests
from bs4 import BeautifulSoup
```

```
url = "https://results.eci.gov.in/PcResultGenJune2024/index.htm"
site = requests.get(url)
soup = BeautifulSoup(site.content,'html.parser')
```

```
option_html = soup.find("select", id = "ctl00_ContentPlaceHolder1_Result1_ddlState")
option_html
```

> `<select id="ctl00_ContentPlaceHolder1_Result1_ddlState" name="state" onchange="return GetResult(this)"> <option value=""> Select State Wise </option><option value="U01">Andaman & Nicobar Islands</option><option value="S01">Andhra Pradesh</option><option value="S02">Arunachal Pradesh</option><option value="S03">Assam</option><option value="S04">Bihar</option><option value="U02">Chandigarh</option><option value="S26">Chhattisgarh</option><option value="U03">Dadra & Nagar Haveli and Daman & Diu</option><option value="S05">Goa</option><option value="S06">Gujarat</option><option value="S07">Haryana</option><option value="S08">Himachal Pradesh</option><option value="U08">Jammu and Kashmir</option><option value="S27">Jharkhand</option><option value="S10">Karnataka</option><option value="S11">Kerala</option><option value="U09">Ladakh</option><option value="U06">Lakshadweep</option><option value="S12">Madhya Pradesh</option><option value="S13">Maharashtra</option><option value="S14">Manipur</option><option value="S15">Meghalaya</option><option value="S16">Mizoram</option><option value="S17">Nagaland</option><option value="U05">NCT OF Delhi</option><option value="S18">Odisha</option><option value="U07">Puducherry</option><option value="S19">Punjab</option><option value="S20">Rajasthan</option><option value="S21">Sikkim</option><option value="S22">Tamil Nadu</option><option value="S29">Telangana</option><option value="S23">Tripura</option><option value="S24">Uttar Pradesh</option><option value="S28">Uttarakhand</option><option value="S25">West Bengal</option></select>`

```
def finding_optionValue(url):
    page = requests.get(url)
    soup = BeautifulSoup(page.content,'html.parser')
    dropdown_result = soup.find("select", id = "ctl00_ContentPlaceHolder1_Result1_ddlState")
    options = dropdown_result.find_all('option')
    option_value_list = []
    for option in options:
        option_value = option.get('value')
        option_value_list.append(option_value)
    return option_value_list
```

```
states_and_ut = finding_optionValue("https://results.eci.gov.in/PcResultGenJune2024/index.htm")
states_and_ut
```

> ['',
> 'U01',
> 'S01',
> 'S02',
> 'S03',
> 'S04',
> 'U02',
> 'S26',
> 'U03',
> 'S05',
> 'S06',
> 'S07',
> 'S08',
> 'U08',
> 'S27',
> 'S10',
> 'S11',
> 'U09',
> 'U06',
> 'S12',
> 'S13',
> 'S14',
> 'S15',
> 'S16',
> 'S17',
> 'U05',
> 'S18',
> 'U07',
> 'S19',
> 'S20',
> 'S21',
> 'S22',
> 'S29',
> 'S23',
> 'S24',
> 'S28',
> 'S25']

```
for index,element in enumerate(states_and_ut[1:]):
    url = f"https://results.eci.gov.in/PcResultGenJune2024/partywiseresult-{element}.htm"
    page = requests.get(url)
    print(index,page.status_code)
```

```
0 200
1 200
2 200
3 200
4 200
5 200
6 200
7 200
8 200
9 200
10 200
11 200
12 200
13 200
14 200
15 200
16 200
17 200
18 200
19 200
20 200
21 200
22 200
23 200
24 200
25 200
26 200
27 200
28 200
29 200
30 200
31 200
32 200
33 200
34 200
35 200
```

```python
master_list = []
state_code_list = []

for elements in states_and_ut[1:]:
        url = f"https://results.eci.gov.in/PcResultGenJune2024/partywiseresult-{elements}.htm"
        pc = finding_optionValue(url)
        master_list.append(pc)
```

```python
flat_master = sum(master_list, [])
```

```python
for elements in flat_master:
    if (elements == ""):
        flat_master.remove("")
```

```python
len(flat_master)
```

```
543
```

```python
import pandas as pd
```

```python
def table_scrapper(url):
    page = requests.get(url)
    soup = BeautifulSoup(page.content,'html.parser')
    result_table = soup.find("table")
    for body in result_table.find_all('tbody'):
        rows = body.find_all('tr')
    sr_no = []
    candidate_name = []
    party_name = []
    evm_votes = []
    postal_votes = []
    total_votes = []
    percent_votes = []
    for row in rows:
        sr = row.find_all('td')[0].text
        sr_no.append(sr)
        can_name = row.find_all('td')[1].text
        candidate_name.append(can_name)
        party = row.find_all('td')[2].text
        party_name.append(party)
        e_votes = row.find_all('td')[3].text
        evm_votes.append(e_votes)
        p_votes = row.find_all('td')[4].text
        postal_votes.append(p_votes)
        t_votes = row.find_all('td')[5].text
        total_votes.append(t_votes)
        per_votes = row.find_all('td')[6].text
        percent_votes.append(per_votes)
        pc = soup.find('h2').text
        state_name = soup.find('strong').text

        data = {
        "Sr No": sr_no,
        "Candidate Name": candidate_name,
        "Party Name": party_name,
        "EVM Votes": evm_votes,
        "Postal Votes": postal_votes,
        "Total Votes": total_votes,
        "Percent Votes": percent_votes,
        "Constiteuncy" : pc,
        "State" : state_name
    }

    df = pd.DataFrame(data)
    return df
```

```python
df_try = pd.DataFrame(columns = ["S.N.","Candidate","Party","EVM Votes","Postal Votes","Total Votes","% of Votes","Constituency"])
```

```python
from concurrent.futures import ThreadPoolExecutor
```

```python
def fetch_data(element):
    url = f"https://results.eci.gov.in/PcResultGenJune2024/Constituencywise{element}.htm"
    return table_scrapper(url)

# List to store the dataframes
df_list = []

# Use ThreadPoolExecutor to fetch data concurrently
with ThreadPoolExecutor(max_workers=10) as executor:
    # Fetch data concurrently and store results in a list
    results = list(executor.map(fetch_data, flat_master))

# Concatenate all dataframes at once
final_df = pd.concat(results, axis=0, ignore_index=True)

# Output the final dataframe
print(final_df)
```

```
        Sr No      Candidate Name                                Party Name  \
0          1      BISHNU PADA RAY                    Bharatiya Janata Party
1          2   KULDEEP RAI SHARMA                  Indian National Congress
2          3          MANOJ PAUL      Andaman Nicobar Democratic Congress
3          4          D AYYAPPAN      Communist Party of India  (Marxist)
4          5      V.K. ABDUL AZIZ                               Independent
...       ...                 ...                                       ...
8897       9      SK. SAPIYAR ALI                               Independent
8898      10         NIKHIL BERA   Socialist Unity Centre Of India (COMMUNIST)
8899      11   AMAL KUMAR BARMAN                               Independent
8900      12    RAMPRASAD GHORAI                       Indian Unity Centre
8901      13                NOTA                          None of the Above
```

```
      EVM Votes Postal Votes Total Votes Percent Votes  \
0        102182          254      102436          50.58
1         77829          211       78040          38.54
2          8236           18        8254           4.08
3          6009            8        6017           2.97
4          2195            8        2203           1.09
...         ...          ...         ...            ...
8897       2924            -        2924           0.21
8898       2095           12        2107           0.15
8899       1997            3        2000           0.14
8900       1568            4        1572           0.11
8901      11263           55       11318           0.81

                                       Constiteuncy  \
0        Parliamentary  Constituency  1 - Andaman & Nic...
1        Parliamentary  Constituency  1 - Andaman & Nic...
2        Parliamentary  Constituency  1 - Andaman & Nic...
3        Parliamentary  Constituency  1 - Andaman & Nic...
4        Parliamentary  Constituency  1 - Andaman & Nic...
...                                             ...
8897     Parliamentary  Constituency  26 - Uluberia (We...
8898     Parliamentary  Constituency  26 - Uluberia (We...
8899     Parliamentary  Constituency  26 - Uluberia (We...
8900     Parliamentary  Constituency  26 - Uluberia (We...
8901     Parliamentary  Constituency  26 - Uluberia (We...

                          State
0        (Andaman & Nicobar Islands)
1        (Andaman & Nicobar Islands)
2        (Andaman & Nicobar Islands)
3        (Andaman & Nicobar Islands)
4        (Andaman & Nicobar Islands)
...                            ...
8897               (West Bengal)
8898               (West Bengal)
8899               (West Bengal)
8900               (West Bengal)
8901               (West Bengal)

[8902 rows x 9 columns]
```

`final_df.head()`

	Sr No	Candidate Name	Party Name	EVM Votes	Postal Votes	Total Votes	Percent Votes	Constiteuncy	State
0	1	BISHNU PADA RAY	Bharatiya Janata Party	102182	254	102436	50.58	Parliamentary Constituency 1 - Andaman & Nic…	(Andaman & Nicobar Islands)
1	2	KULDEEP RAI SHARMA	Indian National Congress	77829	211	78040	38.54	Parliamentary Constituency 1 - Andaman & Nic…	(Andaman & Nicobar Islands)
2	3	MANOJ PAUL	Andaman Nicobar Democratic Congress	8236	18	8254	4.08	Parliamentary Constituency 1 - Andaman & Nic…	(Andaman & Nicobar Islands)
3	4	D AYYAPPAN	Communist Party of India (Marxist)	6009	8	6017	2.97	Parliamentary Constituency 1 - Andaman & Nic…	(Andaman & Nicobar Islands)
4	5	V.K. ABDUL AZIZ	Independent	2195	8	2203	1.09	Parliamentary Constituency 1 - Andaman & Nic…	(Andaman & Nicobar Islands)

Next steps: Generate code with `final_df`   ◉ View recommended plots

`final_df.nunique()`

```
Sr No               55
Candidate Name    8101
Party Name         746
EVM Votes         6081
Postal Votes      1447
Total Votes       6100
Percent Votes     1557
Constiteuncy       543
State               36
dtype: int64
```

```
final_df['State'] = final_df['State'].str.extract(r"\((.*?)\)")
final_df
```

	Sr No	Candidate Name	Party Name	EVM Votes	Postal Votes	Total Votes	Percent Votes	Constiteuncy	State
0	1	BISHNU PADA RAY	Bharatiya Janata Party	102182	254	102436	50.58	Parliamentary Constituency 1 - Andaman & Nic...	Andaman & Nicobar Islands
1	2	KULDEEP RAI SHARMA	Indian National Congress	77829	211	78040	38.54	Parliamentary Constituency 1 - Andaman & Nic...	Andaman & Nicobar Islands
2	3	MANOJ PAUL	Andaman Nicobar Democratic Congress	8236	18	8254	4.08	Parliamentary Constituency 1 - Andaman & Nic...	Andaman & Nicobar Islands
3	4	D AYYAPPAN	Communist Party of India (Marxist)	6009	8	6017	2.97	Parliamentary Constituency 1 - Andaman & Nic...	Andaman & Nicobar Islands
4	5	V.K. ABDUL AZIZ	Independent	2195	8	2203	1.09	Parliamentary Constituency 1 - Andaman & Nic...	Andaman & Nicobar Islands
...	...	...	...	...	...	...	...	...	...
8897	9	SK. SAPIYAR ALI	Independent	2924	-	2924	0.21	Parliamentary Constituency 26 - Uluberia (We...	West Bengal
8898	10	NIKHIL BERA	Socialist Unity Centre Of India (COMMUNIST)	2095	12	2107	0.15	Parliamentary Constituency 26 - Uluberia (We...	West Bengal

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

```
new_order = ["Sr No", "State", "Constiteuncy", "Candidate Name", "Party Name", "EVM Votes", "Postal Votes", "Total Votes", "Percent Vote
order_df = final_df[new_order]
```

```
order_df.rename(columns = {"Constiteuncy":"Constituency"},inplace = True)
```

```
order_df.head()
```

	Sr No	State	Constituency	Candidate Name	Party Name	EVM Votes	Postal Votes	Total Votes	Percent Votes
0	1	Andaman & Nicobar Islands	Parliamentary Constituency 1 - Andaman & Nic...	BISHNU PADA RAY	Bharatiya Janata Party	102182	254	102436	50.58
1	2	Andaman & Nicobar Islands	Parliamentary Constituency 1 - Andaman & Nic...	KULDEEP RAI SHARMA	Indian National Congress	77829	211	78040	38.54
2	3	Andaman & Nicobar Islands	Parliamentary Constituency 1 - Andaman & Nic...	MANOJ PAUL	Andaman Nicobar Democratic Congress	8236	18	8254	4.08
3	4	Andaman & Nicobar Islands	Parliamentary Constituency 1 - Andaman & Nic...	D AYYAPPAN	Communist Party of India (Marxist)	6009	8	6017	2.97
4	5	Andaman & Nicobar Islands	Parliamentary Constituency 1 - Andaman & Nic...	V.K. ABDUL AZIZ	Independent	2195	8	2203	1.09

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