In [1]:
```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import seaborn as sns
```

In [2]:
```
d = pd.read_excel('2015_16_Statewise_Elementary.xlsx').drop(columns=['STATCD'])
d
```

Out[2]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
2	PUNJAB	22	146	13197	1780	27704	29.82	
3	CHANDIGARH	1	20	84	20	1055	97.25	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
5	HARYANA	21	126	7438	1523	25353	24.12	
6	DELHI	9	69	1201	69	16753	77.03	
7	RAJASTHAN	33	302	41441	10594	68621	19.26	
8	UTTAR PRADESH	75	971	98470	9423	199581	17.31	
9	BIHAR	38	537	40779	5633	103805	8.36	
10	SIKKIM	4	29	756	111	608	9.85	
11	ARUNACHAL PRADESH	20	99	2982	234	1383	16.48	
12	NAGALAND	11	47	1478	125	1981	17.31	
13	MANIPUR	9	35	2422	225	2722	21.16	
14	MIZORAM	8	36	851	169	1091	40.42	
15	TRIPURA	8	71	1101	368	3671	14.87	
16	MEGHALAYA	11	41	6166	609	2964	15.32	
17	ASSAM	27	145	21833	3416	31169	11.03	
18	WEST BENGAL	21	470	41179	3799	991348	24.55	
19	JHARKHAND	24	260	27862	2264	32966	18.18	
20	ODISHA	30	423	39334	4880	41947	13.15	
21	CHHATTISGARH	27	146	21834	2664	25540	16.39	
22	MADHYA PRADESH	51	319	54762	3182	72598	21.99	
23	GUJARAT	33	253	19877	4307	60384	31.35	
24	DAMAN & DIU	2	2	39	7	243	23.61	
25	DADRA & NAGAR HAVELI	1	1	70	11	343	14.72	
26	MAHARASHTRA	36	408	43661	5583	112373	36.58	
27	ANDHRA PRADESH	13	670	15075	5076	84666	24.58	
28	KARNATAKA	34	203	29449	4063	61131	29.38	
29	GOA	2	12	530	111	1458	46.00	
30	LAKSHADWEEP	1	3	10	9	64	41.86	
31	KERALA	14	166	1907	1375	33388	24.76	

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
32	TAMIL NADU	30	413	19301	4092	72139	38.10	
33	PUDUCHERRY	4	6	145	33	1244	52.12	
34	A & N ISLANDS	3	9	198	37	380	30.58	
35	TELANGANA	10	459	9934	1776	352	38.67	

36 rows × 50 columns

In [3]:
```
d.columns
```

Out[3]:
```
Index(['STATNAME', 'DISTRICTS', 'BLOCKS', 'VILLAGES', 'CLUSTERS', 'TOTPOPULAT',
       'P_URB_POP', 'POPULATION_0_6', 'GROWTHRATE', 'SEXRATIO', 'P_SC_POP',
       'P_ST_POP', 'OVERALL_LI', 'FEMALE_LIT', 'MALE_LIT', 'AREA_SQKM',
       'TOT_6_10_15', 'TOT_11_13_15', 'SCHTOT', 'SCHTOTM', 'SCHTOTGR',
       'SCHTOTGA', 'SCHTOTPR', 'SCHBOYTOT', 'ENRTOT', 'ENRTOTG', 'ENRTOTP',
       'ENRTOTM', 'ENRTOTGR', 'ENRTOTPR', 'TCHTOTG', 'TCHTOTP', 'TCHTOTM',
       'SCLSTOT', 'STCHTOT', 'ROADTOT', 'SPLAYTOT', 'SBNDRTOT', 'SGTOILTOT',
       'SBTOILTOT', 'ESTDTOT', 'MDMTOT', 'KITTOT', 'KITSTOT', 'ENR50TOT',
       'CLSTOT', 'TCHTOT', 'TCHFTOT', 'TCHMTOT', 'ENRGTOT'],
      dtype='object')
```

In [4]:
```
d[0:6]
```

Out[4]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPULA
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
2	PUNJAB	22	146	13197	1780	27704	29.82	
3	CHANDIGARH	1	20	84	20	1055	97.25	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
5	HARYANA	21	126	7438	1523	25353	24.12	

6 rows × 50 columns

In [5]:
```
d.columns
```

Out[5]:
```
Index(['STATNAME', 'DISTRICTS', 'BLOCKS', 'VILLAGES', 'CLUSTERS', 'TOTPOPULAT',
       'P_URB_POP', 'POPULATION_0_6', 'GROWTHRATE', 'SEXRATIO', 'P_SC_POP',
       'P_ST_POP', 'OVERALL_LI', 'FEMALE_LIT', 'MALE_LIT', 'AREA_SQKM',
       'TOT_6_10_15', 'TOT_11_13_15', 'SCHTOT', 'SCHTOTM', 'SCHTOTGR',
       'SCHTOTGA', 'SCHTOTPR', 'SCHBOYTOT', 'ENRTOT', 'ENRTOTG', 'ENRTOTP',
       'ENRTOTM', 'ENRTOTGR', 'ENRTOTPR', 'TCHTOTG', 'TCHTOTP', 'TCHTOTM',
       'SCLSTOT', 'STCHTOT', 'ROADTOT', 'SPLAYTOT', 'SBNDRTOT', 'SGTOILTOT',
       'SBTOILTOT', 'ESTDTOT', 'MDMTOT', 'KITTOT', 'KITSTOT', 'ENR50TOT',
       'CLSTOT', 'TCHTOT', 'TCHFTOT', 'TCHMTOT', 'ENRGTOT'],
      dtype='object')
```

In [6]:
```
d.describe()
```

Out[6]:

	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPULATI
count	36.000000	36.000000	36.000000	36.000000	36.000000	36.000000	36
mean	18.888889	203.250000	16520.500000	2289.833333	58626.333333	27.678889	13
std	15.947732	220.756928	21166.739773	2645.161756	165584.055709	18.354991	5
min	1.000000	1.000000	10.000000	7.000000	64.000000	8.360000	9
25%	8.000000	35.750000	1038.500000	121.500000	1348.250000	16.457500	10
50%	13.500000	135.500000	8686.000000	1575.500000	14651.000000	22.800000	12
75%	27.750000	306.250000	23341.000000	3865.000000	60570.750000	32.657500	14
max	75.000000	971.000000	98470.000000	10594.000000	991348.000000	97.250000	39

8 rows × 49 columns

In [7]:
```
d.STATNAME.unique()
```

Out[7]:
```
array(['JAMMU & KASHMIR', 'HIMACHAL PRADESH', 'PUNJAB', 'CHANDIGARH',
       'UTTARAKHAND', 'HARYANA', 'DELHI', 'RAJASTHAN', 'UTTAR PRADESH',
       'BIHAR', 'SIKKIM', 'ARUNACHAL PRADESH', 'NAGALAND', 'MANIPUR',
       'MIZORAM', 'TRIPURA', 'MEGHALAYA', 'ASSAM', 'WEST BENGAL',
       'JHARKHAND', 'ODISHA', 'CHHATTISGARH', 'MADHYA PRADESH', 'GUJARAT',
       'DAMAN & DIU', 'DADRA & NAGAR HAVELI', 'MAHARASHTRA',
       'ANDHRA PRADESH', 'KARNATAKA', 'GOA', 'LAKSHADWEEP', 'KERALA',
       'TAMIL NADU', 'PUDUCHERRY', 'A & N ISLANDS', 'TELANGANA'],
      dtype=object)
```

In [8]:
```
d.STATNAME.nunique()
```

Out[8]:
```
36
```

There are total 36 states whose population details and admission details are present.

In [9]:
```
d.columns=['STATNAME', 'DISTRICTS', 'BLOCKS', 'VILLAGES', 'CLUSTERS', 'TOTPOPULAT',
       'P_URB_POP', 'POPULATION_0_6', 'GROWTHRATE', 'SEXRATIO', 'P_SC_POP',
       'P_ST_POP', 'OVERALL_LI', 'FEMALE_LIT', 'MALE_LIT', 'AREA_SQKM',
       'TOT_6_10_15', 'TOT_11_13_15', 'SCHTOT', 'SCHTOTM', 'SCHTOTGR',
       'SCHTOTGA', 'SCHTOTPR', 'SCHBOYTOT', 'ENRTOT', 'ENRTOTG', 'ENRTOTP',
       'ENRTOTM', 'ENRTOTGR', 'ENRTOTPR', 'TCHTOTG', 'TCHTOTP', 'TCHTOTM',
       'SCLSTOT', 'STCHTOT', 'ROADTOT', 'SPLAYTOT', 'SBNDRTOT', 'SGTOILTOT',
       'SBTOILTOT', 'ESTDTOT', 'MDMTOT', 'KITTOT', 'KITSTOT', 'ENR50TOT',
       'CLSTOT', 'TCHTOT', 'TCHFTOT', 'TCHMTOT', 'ENRGTOT']
d
```

Out[9]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
2	PUNJAB	22	146	13197	1780	27704	29.82	
3	CHANDIGARH	1	20	84	20	1055	97.25	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
5	HARYANA	21	126	7438	1523	25353	24.12	
6	DELHI	9	69	1201	69	16753	77.03	
7	RAJASTHAN	33	302	41441	10594	68621	19.26	
8	UTTAR PRADESH	75	971	98470	9423	199581	17.31	
9	BIHAR	38	537	40779	5633	103805	8.36	
10	SIKKIM	4	29	756	111	608	9.85	
11	ARUNACHAL PRADESH	20	99	2982	234	1383	16.48	
12	NAGALAND	11	47	1478	125	1981	17.31	
13	MANIPUR	9	35	2422	225	2722	21.16	
14	MIZORAM	8	36	851	169	1091	40.42	
15	TRIPURA	8	71	1101	368	3671	14.87	
16	MEGHALAYA	11	41	6166	609	2964	15.32	
17	ASSAM	27	145	21833	3416	31169	11.03	
18	WEST BENGAL	21	470	41179	3799	991348	24.55	
19	JHARKHAND	24	260	27862	2264	32966	18.18	
20	ODISHA	30	423	39334	4880	41947	13.15	
21	CHHATTISGARH	27	146	21834	2664	25540	16.39	
22	MADHYA PRADESH	51	319	54762	3182	72598	21.99	
23	GUJARAT	33	253	19877	4307	60384	31.35	
24	DAMAN & DIU	2	2	39	7	243	23.61	
25	DADRA & NAGAR HAVELI	1	1	70	11	343	14.72	
26	MAHARASHTRA	36	408	43661	5583	112373	36.58	
27	ANDHRA PRADESH	13	670	15075	5076	84666	24.58	
28	KARNATAKA	34	203	29449	4063	61131	29.38	
29	GOA	2	12	530	111	1458	46.00	
30	LAKSHADWEEP	1	3	10	9	64	41.86	
31	KERALA	14	166	1907	1375	33388	24.76	

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
32	TAMIL NADU	30	413	19301	4092	72139	38.10	
33	PUDUCHERRY	4	6	145	33	1244	52.12	
34	A & N ISLANDS	3	9	198	37	380	30.58	
35	TELANGANA	10	459	9934	1776	352	38.67	

36 rows × 50 columns

In [10]:
```
dx = d.transpose()
dx
```

Out[10]:

	0	1	2	3	4	5	
STATNAME	JAMMU & KASHMIR	HIMACHAL PRADESH	PUNJAB	CHANDIGARH	UTTARAKHAND	HARYANA	DEL
DISTRICTS	22	12	22	1	13	21	
BLOCKS	201	124	146	20	95	126	
VILLAGES	7263	10120	13197	84	11989	7438	12
CLUSTERS	1628	2243	1780	20	995	1523	
TOTPOPULAT	12549	6857	27704	1055	10117	25353	167
P_URB_POP	20.05	8.69	29.82	97.25	21.54	24.12	77.
POPULATION_0_6	16.01	11.14	10.62	11.18	13.14	13.01	11.
GROWTHRATE	23.71	12.81	13.73	17.1	19.17	19.9	20.
SEXRATIO	883	974	893	818	963	877	8
P_SC_POP	7.4	25.2	31.9	18.9	18.8	20.2	16
P_ST_POP	11.9	5.7	0.0	0.0	2.9	0.0	0
OVERALL_LI	68.74	83.78	76.68	86.43	79.63	76.64	86.
FEMALE_LIT	58.01	76.6	71.34	81.38	70.7	66.77	80.
MALE_LIT	78.26	90.83	81.48	90.54	88.33	85.38	91.
AREA_SQKM	222236	55673	50362	114	53483	44212	14
TOT_6_10_15	1452682	588162	2447062	114473	1123220	2556187	17044
TOT_11_13_15	865656	354221	1498066	67721	687598	1509213	8742
SCHTOT	28578	18024	28776	201	23660	22268	57
SCHTOTM	2	1	1125	6	368	836	
SCHTOTGR	21829	15014	18005	16	16860	13171	1
SCHTOTGA	23329	15386	20956	122	18044	14825	30
SCHTOTPR	3776	2258	3831	1	4253	4038	
SCHBOYTOT	28128	17952	28327	198	23317	20888	48
ENRTOT	1856776	950766	3962439	157921	1712673	3730944	30070
ENRTOTG	1024643	580395	2072324	101884	757209	1663751	16756
ENRTOTP	832077	370337	1651510	55040	907076	1970731	13313
ENRTOTM	56	34	238605	997	48388	96462	
ENRTOTGR	951439	547430	1560105	17869	679723	1352437	352
ENRTOTPR	515189	277699	755203	386	604115	989249	302
TCHTOTG	98689	66338	128034	5437	65399	93090	762
TCHTOTP	59148	28524	106425	3801	42144	105482	626
TCHTOTM	10	3	16011	71	1831	6398	
SCLSTOT	2114	540	562	1	259	207	
STCHTOT	1745	1476	1583	0	1558	1074	

	0	1	2	3	4	5	
ROADTOT	22634	14929	28650	201	18214	21824	57
SPLAYTOT	10604	15456	27853	187	13768	18780	50
SBNDRTOT	9710	12016	28317	201	19105	21740	57
SGTOILTOT	26934	17949	28482	200	22866	21390	47
SBTOILTOT	25887	17898	28216	198	22726	20788	48
ESTDTOT	13213	3638	5801	37	5912	3910	13
MDMTOT	23201	15331	19901	116	17737	14642	30
KITTOT	15074	14268	18042	7	15644	10092	
KITSTOT	21674	15117	18565	7	17700	12701	
ENR50TOT	17560	12830	8598	1	15035	4409	
CLSTOT	138909	72957	177988	4054	94488	157391	792
TCHTOT	157847	94865	250470	9309	109374	204970	1388
TCHFTOT	70853	44864	185000	7345	51649	114808	1004
TCHMTOT	86994	50001	65470	1964	57725	90162	384
ENRGTOT	886199	452717	1787164	73130	811764	1694202	14041

50 rows × 36 columns

In [11]:
```
d.dtypes
```

Out[11]:
```
STATNAME          object
DISTRICTS          int64
BLOCKS             int64
VILLAGES           int64
CLUSTERS           int64
TOTPOPULAT         int64
P_URB_POP        float64
POPULATION_0_6   float64
GROWTHRATE       float64
SEXRATIO           int64
P_SC_POP         float64
P_ST_POP         float64
OVERALL_LI       float64
FEMALE_LIT       float64
MALE_LIT         float64
AREA_SQKM          int64
TOT_6_10_15        int64
TOT_11_13_15       int64
SCHTOT             int64
SCHTOTM            int64
SCHTOTGR           int64
SCHTOTGA           int64
SCHTOTPR           int64
SCHBOYTOT          int64
ENRTOT             int64
ENRTOTG            int64
ENRTOTP            int64
ENRTOTM            int64
ENRTOTGR           int64
ENRTOTPR           int64
TCHTOTG            int64
TCHTOTP            int64
TCHTOTM            int64
SCLSTOT            int64
STCHTOT            int64
ROADTOT            int64
SPLAYTOT           int64
SBNDRTOT           int64
SGTOILTOT          int64
SBTOILTOT          int64
ESTDTOT            int64
MDMTOT             int64
KITTOT             int64
KITSTOT            int64
ENR50TOT           int64
CLSTOT             int64
TCHTOT             int64
TCHFTOT            int64
TCHMTOT            int64
ENRGTOT            int64
dtype: object
```

In [12]:
```
d.head(15)
```

Out[12]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPUI
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
2	PUNJAB	22	146	13197	1780	27704	29.82	
3	CHANDIGARH	1	20	84	20	1055	97.25	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
5	HARYANA	21	126	7438	1523	25353	24.12	
6	DELHI	9	69	1201	69	16753	77.03	
7	RAJASTHAN	33	302	41441	10594	68621	19.26	
8	UTTAR PRADESH	75	971	98470	9423	199581	17.31	
9	BIHAR	38	537	40779	5633	103805	8.36	
10	SIKKIM	4	29	756	111	608	9.85	
11	ARUNACHAL PRADESH	20	99	2982	234	1383	16.48	
12	NAGALAND	11	47	1478	125	1981	17.31	
13	MANIPUR	9	35	2422	225	2722	21.16	
14	MIZORAM	8	36	851	169	1091	40.42	

15 rows × 50 columns

In [13]:
```
d.tail(10)
```

Out[13]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPUI
26	MAHARASHTRA	36	408	43661	5583	112373	36.58	
27	ANDHRA PRADESH	13	670	15075	5076	84666	24.58	
28	KARNATAKA	34	203	29449	4063	61131	29.38	
29	GOA	2	12	530	111	1458	46.00	
30	LAKSHADWEEP	1	3	10	9	64	41.86	
31	KERALA	14	166	1907	1375	33388	24.76	
32	TAMIL NADU	30	413	19301	4092	72139	38.10	
33	PUDUCHERRY	4	6	145	33	1244	52.12	
34	A & N ISLANDS	3	9	198	37	380	30.58	
35	TELANGANA	10	459	9934	1776	352	38.67	

10 rows × 50 columns

In [14]:
```
d[['STATNAME','DISTRICTS']]
```

Out[14]:

	STATNAME	DISTRICTS
0	JAMMU & KASHMIR	22
1	HIMACHAL PRADESH	12
2	PUNJAB	22
3	CHANDIGARH	1
4	UTTARAKHAND	13
5	HARYANA	21
6	DELHI	9
7	RAJASTHAN	33
8	UTTAR PRADESH	75
9	BIHAR	38
10	SIKKIM	4
11	ARUNACHAL PRADESH	20
12	NAGALAND	11
13	MANIPUR	9
14	MIZORAM	8
15	TRIPURA	8
16	MEGHALAYA	11
17	ASSAM	27
18	WEST BENGAL	21
19	JHARKHAND	24
20	ODISHA	30
21	CHHATTISGARH	27
22	MADHYA PRADESH	51
23	GUJARAT	33
24	DAMAN & DIU	2
25	DADRA & NAGAR HAVELI	1
26	MAHARASHTRA	36
27	ANDHRA PRADESH	13
28	KARNATAKA	34
29	GOA	2
30	LAKSHADWEEP	1
31	KERALA	14
32	TAMIL NADU	30
33	PUDUCHERRY	4
34	A & N ISLANDS	3
35	TELANGANA	10

In [15]:
```
list(d.groupby('STATNAME'))
```

Out[15]:
```
[('A & N ISLANDS',
          STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
 34  A & N ISLANDS          3       9       198        37         380

     P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
 34      30.58            10.4        6.68       878  ...       84     333

     KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 34      97      138       188    2755    5346     3343     2003    24594

 [1 rows x 50 columns]),
('ANDHRA PRADESH',
          STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
 27  ANDHRA PRADESH         13     670     15075      5076       84666

     P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
 27      24.58           10.21        11.1       992  ...    15095   45561

     KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 27   20650    35387     29423  270159  276900   130555   146345  2711102

 [1 rows x 50 columns]),
('ARUNACHAL PRADESH',
             STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
 11  ARUNACHAL PRADESH         20      99      2982       234        1383

     P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
 11      16.48           14.66       25.92       920  ...     2058    3259

     KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 11    2061     3150      2169   21138   21584     9240    12344   159128

 [1 rows x 50 columns]),
('ASSAM',
    STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 17    ASSAM         27     145     21833      3416       31169      11.03

     POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 17           14.47       16.93       954  ...     8501   53184   35980

     KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 17    51698     30392  214043  302001   109199   192802  2727655

 [1 rows x 50 columns]),
('BIHAR',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 9    BIHAR         38     537     40779      5633      103805       8.36

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 9           17.9       25.07       916  ...    26359   69140   41196

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT   ENRGTOT
 9    65928      2993  458552  467877   164170   252687  11667789

 [1 rows x 50 columns]),
('CHANDIGARH',
      STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 3  CHANDIGARH          1      20        84        20        1055      97.25

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 3           11.18        17.1       818  ...       37     116       7

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 3        7         1    4054    9309     7345     1964    73130
```

```
 [1 rows x 50 columns]),
('CHHATTISGARH',
        STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
 21  CHHATTISGARH         27     146     21834      2664       25540

    P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
 21      16.39           14.03       22.59       991  ...    18397   44304

    KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 21   35208    41546     20886  192058  214727    92759   121968  2185121

 [1 rows x 50 columns]),
('DADRA & NAGAR HAVELI',
               STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
 25  DADRA & NAGAR HAVELI          1       1        70        11         343

    P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
 25      14.72           14.35        55.5       775  ...      120     283

    KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 25      52      283       109    1819    2411     1524      887    27572

 [1 rows x 50 columns]),
('DAMAN & DIU',
       STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 24  DAMAN & DIU          2       2        39         7         243      23.61

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 24           10.65       53.54       618  ...       28      96      82

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 24       96        24     846    1163      795      363    12995

 [1 rows x 50 columns]),
('DELHI',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 6    DELHI          9      69      1201        69       16753      77.03

   POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 6           11.76       20.96       866  ...     1379    3017       0

   KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 6        0        85   79259  138849   100423    38426  1404158

 [1 rows x 50 columns]),
('GOA',
    STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 29      GOA          2      12       530       111        1458       46.0

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 29            9.57        8.17       968  ...      163    1295       6

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 29        7       763    7241   11382     9097     2285    93982

 [1 rows x 50 columns]),
('GUJARAT',
    STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 23  GUJARAT         33     253     19877      4307       60384      31.35

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 23           12.41       19.17       918  ...     9220   33148   27027
```

```
    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
23    28122      9047  325412  325031   182204   142827  4217062

[1 rows x 50 columns]),
('HARYANA',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
5  HARYANA         21     126      7438      1523       25353      24.12

   POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
5           13.01        19.9       877  ...     3910   14642   10092

   KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
5    12701      4409  157391  204970   114808    90162  1694202

[1 rows x 50 columns]),
('HIMACHAL PRADESH',
           STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
1  HIMACHAL PRADESH         12     124     10120      2243        6857

   P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
1       8.69           11.14       12.81       974  ...     3638   15331

   KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
1   14268    15117     12830   72957   94865    44864    50001   452717

[1 rows x 50 columns]),
('JAMMU & KASHMIR',
          STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
0  JAMMU & KASHMIR         22     201      7263      1628       12549

   P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
0      20.05           16.01       23.71       883  ...    13213   23201

   KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
0   15074    21674     17560  138909  157847    70853    86994   886199

[1 rows x 50 columns]),
('JHARKHAND',
     STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
19  JHARKHAND         24     260     27862      2264       32966      18.18

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
19           15.89       22.34       947  ...    22843   40815   27597

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
19    40248     14659  251790  181866    61983   119882  3217775

[1 rows x 50 columns]),
('KARNATAKA',
     STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
28  KARNATAKA         34     203     29449      4063       61131      29.38

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
28           11.21       15.67       968  ...    13721   48067   37758

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
28    39788     25595  363342  312662   188549   123874  4034327

[1 rows x 50 columns]),
('KERALA',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
31   KERALA         14     166      1907      1375       33388      24.76

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
```

```
31           9.95       44.86      1084  ...     2174   11320   10528

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
31    11281      4163  168243  243885   190347    53515  1959627

[1 rows x 50 columns]),
('LAKSHADWEEP',
       STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
30  LAKSHADWEEP          1       3        10         9          64      41.86

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
30            11.0        6.23       946  ...       10      39      37

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
30       37         4     392     888      412      476     3724

[1 rows x 50 columns]),
('MADHYA PRADESH',
          STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
22  MADHYA PRADESH         51     319     54762      3182       72598

    P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
22      21.99           14.53        20.3       930  ...    40550  112875

    KITTOT  KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
22   65235    84749     59699  614752  528609   231100   297509  6099329

[1 rows x 50 columns]),
('MAHARASHTRA',
       STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
26  MAHARASHTRA         36     408     43661      5583      112373      36.58

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
26           11.43       15.99       925  ...    19786   83058   65770

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
26    74542     39413  516213  666338   288381   377957  7519261

[1 rows x 50 columns]),
('MANIPUR',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
13  MANIPUR          9      35      2422       225        2722      21.16

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
13           12.98       18.65       987  ...     1237    3535    1516

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
13     3202      2678   26974   38936    19201    19735   248684

[1 rows x 50 columns]),
('MEGHALAYA',
     STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
16  MEGHALAYA         11      41      6166       609        2964      15.32

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
16           18.75       27.82       986  ...     4962   11059    9627

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
16    10802      8366   41475   44148    24231    19917   393293

[1 rows x 50 columns]),
('MIZORAM',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
14  MIZORAM          8      36       851       169        1091      40.42
```

```
    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
14           15.17       22.78       975  ...      978    2343    2277

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
14     2323      1658   14435   18482     8609     9873   103263

[1 rows x 50 columns]),
('NAGALAND',
    STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
12  NAGALAND         11      47      1478       125        1981      17.31

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
12           14.44       -0.47       931  ...      618    1888    1633

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
12     1812       942   19355   30320    15358    14962   171460

[1 rows x 50 columns]),
('ODISHA',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
20   ODISHA         30     423     39334      4880       41947      13.15

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
20            12.0       13.97       978  ...    14512   62536   43289

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
20    59322     29565  254482  314988   135957   179031  3058382

[1 rows x 50 columns]),
('PUDUCHERRY',
      STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
33  PUDUCHERRY          4       6       145        33        1244      52.12

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
33           10.25       27.72      1038  ...      137     438      33

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
33       34       154    6478   12128     8716     3412    82340

[1 rows x 50 columns]),
('PUNJAB',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
2   PUNJAB         22     146     13197      1780       27704      29.82

   POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
2           10.62       13.73       893  ...     5801   19901   18042

   KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
2    18565      8598  177988  250470   185000    65470  1787164

[1 rows x 50 columns]),
('RAJASTHAN',
    STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
7  RAJASTHAN         33     302     41441     10594       68621      19.26

   POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
7           15.31       21.44       926  ...    40692   68943   52064

   KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
7    64116     35673  593656  656083   228864   427219  5687861

[1 rows x 50 columns]),
('SIKKIM',
```

```
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
10   SIKKIM          4      29       756       111         608       9.85

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
10           10.05       12.36       889  ...      332     855     811

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
10      842       721    9153   15077     8237     6840    51351

[1 rows x 50 columns]),
('TAMIL NADU',
      STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
32  TAMIL NADU         30     413     19301      4092       72139       38.1

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
32            9.56        15.6       995  ...     8880   45254   42284

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
32    43895     18004  368636  557801   412353   145430  4503530

[1 rows x 50 columns]),
('TELANGANA',
     STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
35  TELANGANA         10     459      9934      1776         352      38.67

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
35            39.2       13.58       987  ...    12694   28292   14595

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
35    25133     15731  218998  229268   114157   115111  2428321

[1 rows x 50 columns]),
('TRIPURA',
   STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
15  TRIPURA          8      71      1101       368        3671      14.87

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
15            12.1       14.75       961  ...     1547    4331    3945

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
15     4273      1963   25046   46613    13589    33024   279322

[1 rows x 50 columns]),
('UTTAR PRADESH',
        STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  \
8  UTTAR PRADESH         75     971     98470      9423      199581

   P_URB_POP  POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  \
8      17.31            14.9       20.09       908  ...   103836  164371

   KITTOT  KITSTOT  ENR50TOT   CLSTOT   TCHTOT  TCHFTOT  TCHMTOT   ENRGTOT
8  128771   156437     39438  1229467  1018912   406828   608614  17895397

[1 rows x 50 columns]),
('UTTARAKHAND',
      STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
4  UTTARAKHAND         13      95     11989       995       10117      21.54

   POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
4           13.14       19.17       963  ...     5912   17737   15644

   KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
4    17700     15035   94488  109374    51649    57725   811764
```

```
 [1 rows x 50 columns]),
('WEST BENGAL',
        STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
 18  WEST BENGAL         21     470     41179      3799      991348      24.55

     POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
 18           11.07       13.93       947  ...    23729   81548   67402

     KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
 18    78100     31271  449598  565646   241201   324190  6449590

 [1 rows x 50 columns])]
```

In [16]:
```
dx = d.groupby('STATNAME')
dx
```

Out[16]:
```
<pandas.core.groupby.generic.DataFrameGroupBy object at 0x00000275BF1CB490>
```

In [17]:
```
for i in dx:
    print(i[0],end='       ')
```

```
A & N ISLANDS       ANDHRA PRADESH       ARUNACHAL PRADESH       ASSAM       BIHAR
CHANDIGARH       CHHATTISGARH       DADRA & NAGAR HAVELI       DAMAN & DIU       D
ELHI       GOA       GUJARAT       HARYANA       HIMACHAL PRADESH       JAMMU & KA
SHMIR       JHARKHAND       KARNATAKA       KERALA       LAKSHADWEEP       MADHYA
PRADESH       MAHARASHTRA       MANIPUR       MEGHALAYA       MIZORAM       NAGALA
ND       ODISHA       PUDUCHERRY       PUNJAB       RAJASTHAN       SIKKIM       T
AMIL NADU       TELANGANA       TRIPURA       UTTAR PRADESH       UTTARAKHAND
WEST BENGAL
```

Fetch data of MAHARASHTRA only

In [18]:
```
for i,j in dx:
    if i=='MAHARASHTRA':
        print(j)
```

```
       STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
26  MAHARASHTRA         36     408     43661      5583      112373      36.58

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
26           11.43       15.99       925  ...    19786   83058   65770

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
26    74542     39413  516213  666338   288381   377957  7519261

[1 rows x 50 columns]
```

Fetch data of MAHARASHTRA and PUNJAB only¶

In [19]:
```
for i,j in dx:
    if i=='MAHARASHTRA' or i=='PUNJAB':
        print(j)
```

```
       STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
26  MAHARASHTRA         36     408     43661      5583      112373      36.58

    POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
26           11.43       15.99       925  ...    19786   83058   65770

    KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
26    74542     39413  516213  666338   288381   377957  7519261

[1 rows x 50 columns]
  STATNAME  DISTRICTS  BLOCKS  VILLAGES  CLUSTERS  TOTPOPULAT  P_URB_POP  \
2   PUNJAB         22     146     13197      1780       27704      29.82

   POPULATION_0_6  GROWTHRATE  SEXRATIO  ...  ESTDTOT  MDMTOT  KITTOT  \
2           10.62       13.73       893  ...     5801   19901   18042

   KITSTOT  ENR50TOT  CLSTOT  TCHTOT  TCHFTOT  TCHMTOT  ENRGTOT
2    18565      8598  177988  250470   185000    65470  1787164

[1 rows x 50 columns]
```

In [20]:
```
d_sort = d.sort_values(by='STATNAME')
d_sort
```

Out[20]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
34	A & N ISLANDS	3	9	198	37	380	30.58	
27	ANDHRA PRADESH	13	670	15075	5076	84666	24.58	
11	ARUNACHAL PRADESH	20	99	2982	234	1383	16.48	
17	ASSAM	27	145	21833	3416	31169	11.03	
9	BIHAR	38	537	40779	5633	103805	8.36	
3	CHANDIGARH	1	20	84	20	1055	97.25	
21	CHHATTISGARH	27	146	21834	2664	25540	16.39	
25	DADRA & NAGAR HAVELI	1	1	70	11	343	14.72	
24	DAMAN & DIU	2	2	39	7	243	23.61	
6	DELHI	9	69	1201	69	16753	77.03	
29	GOA	2	12	530	111	1458	46.00	
23	GUJARAT	33	253	19877	4307	60384	31.35	
5	HARYANA	21	126	7438	1523	25353	24.12	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
19	JHARKHAND	24	260	27862	2264	32966	18.18	
28	KARNATAKA	34	203	29449	4063	61131	29.38	
31	KERALA	14	166	1907	1375	33388	24.76	
30	LAKSHADWEEP	1	3	10	9	64	41.86	
22	MADHYA PRADESH	51	319	54762	3182	72598	21.99	
26	MAHARASHTRA	36	408	43661	5583	112373	36.58	
13	MANIPUR	9	35	2422	225	2722	21.16	
16	MEGHALAYA	11	41	6166	609	2964	15.32	
14	MIZORAM	8	36	851	169	1091	40.42	
12	NAGALAND	11	47	1478	125	1981	17.31	
20	ODISHA	30	423	39334	4880	41947	13.15	
33	PUDUCHERRY	4	6	145	33	1244	52.12	
2	PUNJAB	22	146	13197	1780	27704	29.82	
7	RAJASTHAN	33	302	41441	10594	68621	19.26	
10	SIKKIM	4	29	756	111	608	9.85	
32	TAMIL NADU	30	413	19301	4092	72139	38.10	
35	TELANGANA	10	459	9934	1776	352	38.67	

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
15	TRIPURA	8	71	1101	368	3671	14.87	
8	UTTAR PRADESH	75	971	98470	9423	199581	17.31	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
18	WEST BENGAL	21	470	41179	3799	991348	24.55	

36 rows × 50 columns

In [21]:
```
d_sort1 = d.sort_values(by='DISTRICTS')
d_sort1
```

Out[21]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
25	DADRA & NAGAR HAVELI	1	1	70	11	343	14.72	
3	CHANDIGARH	1	20	84	20	1055	97.25	
30	LAKSHADWEEP	1	3	10	9	64	41.86	
24	DAMAN & DIU	2	2	39	7	243	23.61	
29	GOA	2	12	530	111	1458	46.00	
34	A & N ISLANDS	3	9	198	37	380	30.58	
10	SIKKIM	4	29	756	111	608	9.85	
33	PUDUCHERRY	4	6	145	33	1244	52.12	
14	MIZORAM	8	36	851	169	1091	40.42	
15	TRIPURA	8	71	1101	368	3671	14.87	
13	MANIPUR	9	35	2422	225	2722	21.16	
6	DELHI	9	69	1201	69	16753	77.03	
35	TELANGANA	10	459	9934	1776	352	38.67	
12	NAGALAND	11	47	1478	125	1981	17.31	
16	MEGHALAYA	11	41	6166	609	2964	15.32	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
27	ANDHRA PRADESH	13	670	15075	5076	84666	24.58	
31	KERALA	14	166	1907	1375	33388	24.76	
11	ARUNACHAL PRADESH	20	99	2982	234	1383	16.48	
5	HARYANA	21	126	7438	1523	25353	24.12	
18	WEST BENGAL	21	470	41179	3799	991348	24.55	
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
2	PUNJAB	22	146	13197	1780	27704	29.82	
19	JHARKHAND	24	260	27862	2264	32966	18.18	
21	CHHATTISGARH	27	146	21834	2664	25540	16.39	
17	ASSAM	27	145	21833	3416	31169	11.03	
20	ODISHA	30	423	39334	4880	41947	13.15	
32	TAMIL NADU	30	413	19301	4092	72139	38.10	
23	GUJARAT	33	253	19877	4307	60384	31.35	
7	RAJASTHAN	33	302	41441	10594	68621	19.26	
28	KARNATAKA	34	203	29449	4063	61131	29.38	
26	MAHARASHTRA	36	408	43661	5583	112373	36.58	

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
9	BIHAR	38	537	40779	5633	103805	8.36	
22	MADHYA PRADESH	51	319	54762	3182	72598	21.99	
8	UTTAR PRADESH	75	971	98470	9423	199581	17.31	

36 rows × 50 columns

In [22]:
```
dq=d_sort1.tail(10)
```

In [23]:
```
d.sort_values(by='VILLAGES')
```

Out[23]:

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
30	LAKSHADWEEP	1	3	10	9	64	41.86	
24	DAMAN & DIU	2	2	39	7	243	23.61	
25	DADRA & NAGAR HAVELI	1	1	70	11	343	14.72	
3	CHANDIGARH	1	20	84	20	1055	97.25	
33	PUDUCHERRY	4	6	145	33	1244	52.12	
34	A & N ISLANDS	3	9	198	37	380	30.58	
29	GOA	2	12	530	111	1458	46.00	
10	SIKKIM	4	29	756	111	608	9.85	
14	MIZORAM	8	36	851	169	1091	40.42	
15	TRIPURA	8	71	1101	368	3671	14.87	
6	DELHI	9	69	1201	69	16753	77.03	
12	NAGALAND	11	47	1478	125	1981	17.31	
31	KERALA	14	166	1907	1375	33388	24.76	
13	MANIPUR	9	35	2422	225	2722	21.16	
11	ARUNACHAL PRADESH	20	99	2982	234	1383	16.48	
16	MEGHALAYA	11	41	6166	609	2964	15.32	
0	JAMMU & KASHMIR	22	201	7263	1628	12549	20.05	
5	HARYANA	21	126	7438	1523	25353	24.12	
35	TELANGANA	10	459	9934	1776	352	38.67	
1	HIMACHAL PRADESH	12	124	10120	2243	6857	8.69	
4	UTTARAKHAND	13	95	11989	995	10117	21.54	
2	PUNJAB	22	146	13197	1780	27704	29.82	
27	ANDHRA PRADESH	13	670	15075	5076	84666	24.58	
32	TAMIL NADU	30	413	19301	4092	72139	38.10	
23	GUJARAT	33	253	19877	4307	60384	31.35	
17	ASSAM	27	145	21833	3416	31169	11.03	
21	CHHATTISGARH	27	146	21834	2664	25540	16.39	
19	JHARKHAND	24	260	27862	2264	32966	18.18	
28	KARNATAKA	34	203	29449	4063	61131	29.38	
20	ODISHA	30	423	39334	4880	41947	13.15	
9	BIHAR	38	537	40779	5633	103805	8.36	
18	WEST BENGAL	21	470	41179	3799	991348	24.55	
7	RAJASTHAN	33	302	41441	10594	68621	19.26	

	STATNAME	DISTRICTS	BLOCKS	VILLAGES	CLUSTERS	TOTPOPULAT	P_URB_POP	POPU
26	MAHARASHTRA	36	408	43661	5583	112373	36.58	
22	MADHYA PRADESH	51	319	54762	3182	72598	21.99	
8	UTTAR PRADESH	75	971	98470	9423	199581	17.31	

36 rows × 50 columns

PLOT GRAPH OF POPULATION OF STUDENTS in DIFFERENT STATES

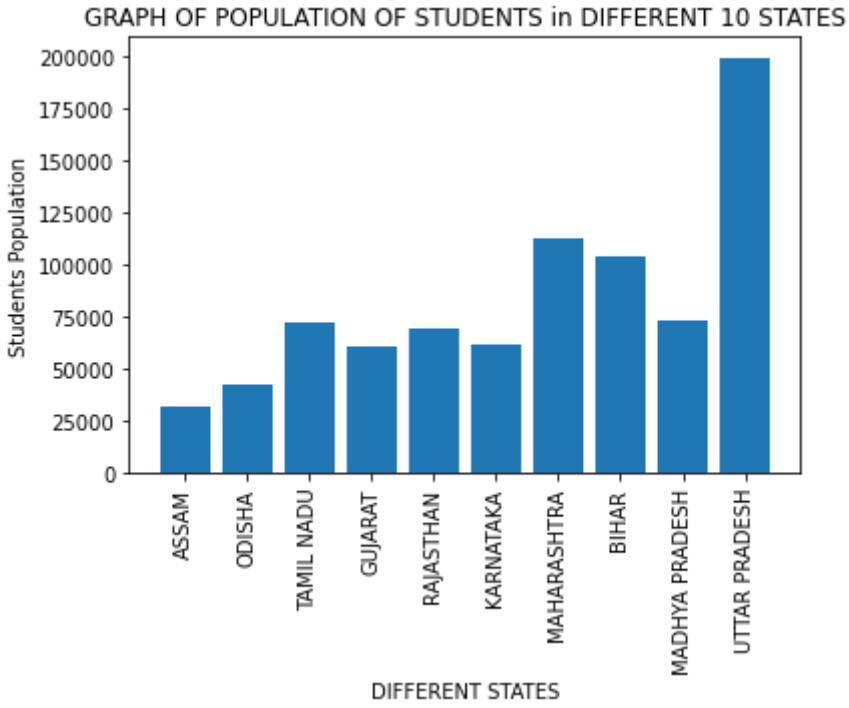
In [24]:
```
ds =dq['STATNAME']
list(ds)
```

Out[24]:
```
['ASSAM',
 'ODISHA',
 'TAMIL NADU',
 'GUJARAT',
 'RAJASTHAN',
 'KARNATAKA',
 'MAHARASHTRA',
 'BIHAR',
 'MADHYA PRADESH',
 'UTTAR PRADESH']
```

In [25]:
```
dp = np.array(dq['TOTPOPULAT'])
dp
```

Out[25]:
```
array([ 31169,  41947,  72139,  60384,  68621,  61131, 112373, 103805,
        72598, 199581], dtype=int64)
```

In [26]:
```
plt.bar(ds,dp)
plt.xticks(rotation=90)
plt.title('GRAPH OF POPULATION OF STUDENTS in DIFFERENT 10 STATES')
plt.ylabel('Students Population')
plt.xlabel('DIFFERENT STATES')
plt.show()
```



In [27]:
```
np.random.random()
```

Out[27]:
```
0.9101446099716759
```

FIND LITERACY RATE & GROWTH RATE AND STATE LOWEST AND HIGHEST LITERACY RATE

In [28]:
```
d.columns
```

Out[28]:
```
Index(['STATNAME', 'DISTRICTS', 'BLOCKS', 'VILLAGES', 'CLUSTERS', 'TOTPOPULAT',
       'P_URB_POP', 'POPULATION_0_6', 'GROWTHRATE', 'SEXRATIO', 'P_SC_POP',
       'P_ST_POP', 'OVERALL_LI', 'FEMALE_LIT', 'MALE_LIT', 'AREA_SQKM',
       'TOT_6_10_15', 'TOT_11_13_15', 'SCHTOT', 'SCHTOTM', 'SCHTOTGR',
       'SCHTOTGA', 'SCHTOTPR', 'SCHBOYTOT', 'ENRTOT', 'ENRTOTG', 'ENRTOTP',
       'ENRTOTM', 'ENRTOTGR', 'ENRTOTPR', 'TCHTOTG', 'TCHTOTP', 'TCHTOTM',
       'SCLSTOT', 'STCHTOT', 'ROADTOT', 'SPLAYTOT', 'SBNDRTOT', 'SGTOILTOT',
       'SBTOILTOT', 'ESTDTOT', 'MDMTOT', 'KITTOT', 'KITSTOT', 'ENR50TOT',
       'CLSTOT', 'TCHTOT', 'TCHFTOT', 'TCHMTOT', 'ENRGTOT'],
      dtype='object')
```

In [29]:
```
d[['OVERALL_LI','GROWTHRATE']].nlargest(1,'OVERALL_LI')
```

Out[29]:

	OVERALL_LI	GROWTHRATE
31	93.91	44.86

In [30]:
```
d[['OVERALL_LI','GROWTHRATE']].nsmallest(1,'OVERALL_LI')
```

Out[30]:

	OVERALL_LI	GROWTHRATE
9	63.82	25.07

plot graph of MALE LITERACY rate wrt Female literacy rate

In [31]:
```
dl = np.array(dq['MALE_LIT'])
dl
```

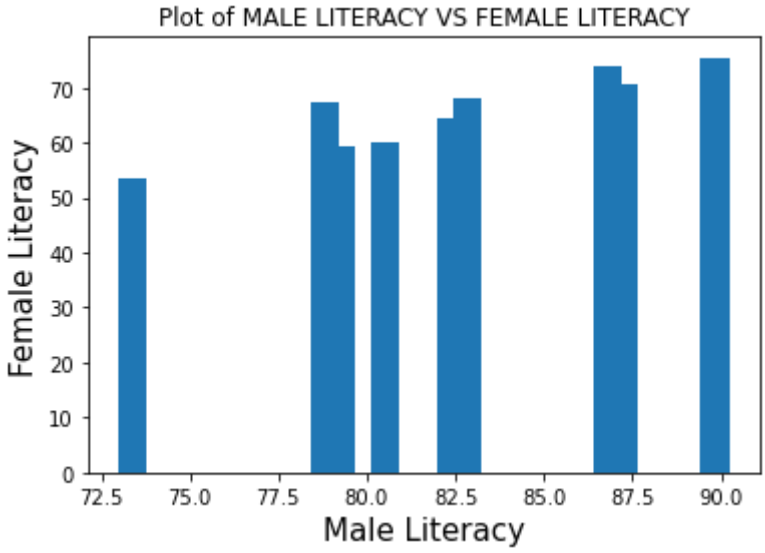
Out[31]:
```
array([78.81, 82.4 , 86.81, 87.23, 80.51, 82.85, 89.82, 73.39, 80.53,
       79.24])
```

In [32]:
```
df = np.array(dq['FEMALE_LIT'])
df
```

Out[32]:
```
array([67.27, 64.36, 73.86, 70.73, 52.66, 68.13, 75.48, 53.33, 60.02,
       59.26])
```

In [33]:
```
plt.bar(dl,df)
plt.xlabel('Male Literacy',fontsize=15)
plt.ylabel('Female Literacy',fontsize=15)
plt.title('Plot of MALE LITERACY VS FEMALE LITERACY')
```

Out[33]:
```
Text(0.5, 1.0, 'Plot of MALE LITERACY VS FEMALE LITERACY')
```



In [34]:
```
print(dir(plt))
```

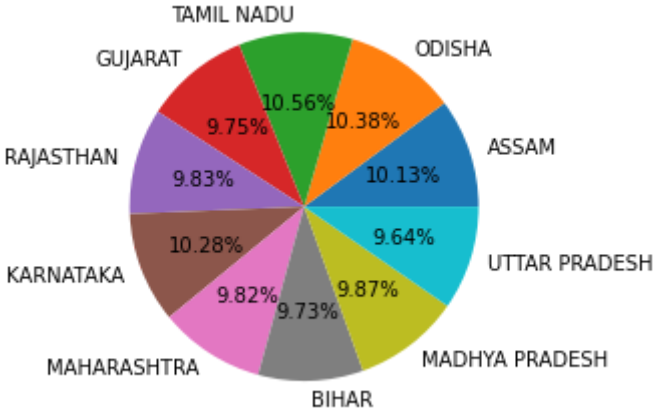
```
['Annotation', 'Arrow', 'Artist', 'AutoLocator', 'Axes', 'Button', 'Circle', 'Figu
re', 'FigureCanvasBase', 'FixedFormatter', 'FixedLocator', 'FormatStrFormatter',
'Formatter', 'FuncFormatter', 'GridSpec', 'IndexLocator', 'Line2D', 'LinearLocato
r', 'Locator', 'LogFormatter', 'LogFormatterExponent', 'LogFormatterMathtext', 'Lo
gLocator', 'MaxNLocator', 'MouseButton', 'MultipleLocator', 'Normalize', 'NullForm
atter', 'NullLocator', 'Number', 'PolarAxes', 'Polygon', 'Rectangle', 'ScalarForma
tter', 'Slider', 'Subplot', 'SubplotSpec', 'Text', 'TickHelper', 'Widget', '_INSTA
LL_FIG_OBSERVER', '_IP_REGISTERED', '_IoffContext', '_IonContext', '__builtins__',
'__cached__', '__doc__', '__file__', '__loader__', '__name__', '__package__', '__s
pec__', '_api', '_auto_draw_if_interactive', '_backend_mod', '_copy_docstring_and_
deprecators', '_get_required_interactive_framework', '_interactive_bk', '_log', '_
pylab_helpers', '_setup_pyplot_info_docstrings', '_warn_if_gui_out_of_main_threa
d', '_xkcd', 'acorr', 'angle_spectrum', 'annotate', 'arrow', 'autoscale', 'autum
n', 'axes', 'axhline', 'axhspan', 'axis', 'axline', 'axvline', 'axvspan', 'bar',
'bar_label', 'barbs', 'barh', 'bone', 'box', 'boxplot', 'broken_barh', 'cbook', 'c
la', 'clabel', 'clf', 'clim', 'close', 'cm', 'cohere', 'colorbar', 'colormaps', 'c
onnect', 'contour', 'contourf', 'cool', 'copper', 'csd', 'cycler', 'delaxes', 'dis
connect', 'docstring', 'draw', 'draw_all', 'draw_if_interactive', 'errorbar', 'eve
ntplot', 'figaspect', 'figimage', 'figlegend', 'fignum_exists', 'figtext', 'figur
e', 'fill', 'fill_between', 'fill_betweenx', 'findobj', 'flag', 'functools', 'gc
a', 'gcf', 'gci', 'get', 'get_backend', 'get_cmap', 'get_current_fig_manager', 'ge
t_figlabels', 'get_fignums', 'get_plot_commands', 'get_scale_names', 'getp', 'ginp
ut', 'gray', 'grid', 'hexbin', 'hist', 'hist2d', 'hlines', 'hot', 'hsv', 'importli
b', 'imread', 'imsave', 'imshow', 'inferno', 'inspect', 'install_repl_displayhoo
k', 'interactive', 'ioff', 'ion', 'isinteractive', 'jet', 'legend', 'locator_param
s', 'logging', 'loglog', 'magma', 'magnitude_spectrum', 'margins', 'matplotlib',
'matshow', 'minorticks_off', 'minorticks_on', 'mlab', 'new_figure_manager', 'nipy_
spectral', 'np', 'pause', 'pcolor', 'pcolormesh', 'phase_spectrum', 'pie', 'pink',
'plasma', 'plot', 'plot_date', 'plotting', 'polar', 'prism', 'psd', 'quiver', 'qui
verkey', 'rc', 'rcParams', 'rcParamsDefault', 'rcParamsOrig', 'rc_context', 'rcdef
aults', 'rcsetup', 're', 'register_cmap', 'rgrids', 'savefig', 'sca', 'scatter',
'sci', 'semilogx', 'semilogy', 'set_cmap', 'set_loglevel', 'setp', 'show', 'specgr
am', 'spring', 'spy', 'stackplot', 'stairs', 'stem', 'step', 'streamplot', 'styl
e', 'subplot', 'subplot2grid', 'subplot_mosaic', 'subplot_tool', 'subplots', 'subp
lots_adjust', 'summer', 'suptitle', 'switch_backend', 'sys', 'table', 'text', 'the
tagrids', 'threading', 'tick_params', 'ticklabel_format', 'tight_layout', 'time',
'title', 'tricontour', 'tricontourf', 'tripcolor', 'triplot', 'twinx', 'twiny', 'u
ninstall_repl_displayhook', 'violinplot', 'viridis', 'vlines', 'waitforbuttonpres
s', 'winter', 'xcorr', 'xkcd', 'xlabel', 'xlim', 'xscale', 'xticks', 'ylabel', 'yl
im', 'yscale', 'yticks']
```

PIECHART FOR SEXRATIO FOR 10 STATES

In [35]:
```
di = np.array(dq['SEXRATIO'])
di
```

Out[35]:
```
array([954, 978, 995, 918, 926, 968, 925, 916, 930, 908], dtype=int64)
```

In [36]:
```
plt.pie(di,labels=list(ds),autopct='%.2f%%')
plt.show()
```



Find the percentage of increase in growth rate from lowest state to highest state growth rate

In [40]:
```
dg = np.array(d.GROWTHRATE)
dg
```

Out[40]:
```
array([23.71, 12.81, 13.73, 17.1 , 19.17, 19.9 , 20.96, 21.44, 20.09,
       25.07, 12.36, 25.92, -0.47, 18.65, 22.78, 14.75, 27.82, 16.93,
       13.93, 22.34, 13.97, 22.59, 20.3 , 19.17, 53.54, 55.5 , 15.99,
       11.1 , 15.67,  8.17,  6.23, 44.86, 15.6 , 27.72,  6.68, 13.58])
```

In [42]:
```
dg.sort()
```

In [43]:
```
dg
```

Out[43]:
```
array([-0.47,  6.23,  6.68,  8.17, 11.1 , 12.36, 12.81, 13.58, 13.73,
       13.93, 13.97, 14.75, 15.6 , 15.67, 15.99, 16.93, 17.1 , 18.65,
       19.17, 19.17, 19.9 , 20.09, 20.3 , 20.96, 21.44, 22.34, 22.59,
       22.78, 23.71, 25.07, 25.92, 27.72, 27.82, 44.86, 53.54, 55.5 ])
```

In [48]:
```
x = d[['STATNAME','GROWTHRATE']]
x
```

Out[48]:

	STATNAME	GROWTHRATE
0	JAMMU & KASHMIR	23.71
1	HIMACHAL PRADESH	12.81
2	PUNJAB	13.73
3	CHANDIGARH	17.10
4	UTTARAKHAND	19.17
5	HARYANA	19.90
6	DELHI	20.96
7	RAJASTHAN	21.44
8	UTTAR PRADESH	20.09
9	BIHAR	25.07
10	SIKKIM	12.36
11	ARUNACHAL PRADESH	25.92
12	NAGALAND	-0.47
13	MANIPUR	18.65
14	MIZORAM	22.78
15	TRIPURA	14.75
16	MEGHALAYA	27.82
17	ASSAM	16.93
18	WEST BENGAL	13.93
19	JHARKHAND	22.34
20	ODISHA	13.97
21	CHHATTISGARH	22.59
22	MADHYA PRADESH	20.30
23	GUJARAT	19.17
24	DAMAN & DIU	53.54
25	DADRA & NAGAR HAVELI	55.50
26	MAHARASHTRA	15.99
27	ANDHRA PRADESH	11.10
28	KARNATAKA	15.67
29	GOA	8.17
30	LAKSHADWEEP	6.23
31	KERALA	44.86
32	TAMIL NADU	15.60
33	PUDUCHERRY	27.72
34	A & N ISLANDS	6.68
35	TELANGANA	13.58

In [51]:
```
low = x[12::40]
low
```

Out[51]:

	STATNAME	GROWTHRATE
12	NAGALAND	-0.47

In [62]:
```
d[['STATNAME','GROWTHRATE']].nlargest(1,'GROWTHRATE')
```

Out[62]:

	STATNAME	GROWTHRATE
25	DADRA & NAGAR HAVELI	55.5

In [63]:
```
d[['STATNAME','GROWTHRATE']].nsmallest(1,'GROWTHRATE')
```

Out[63]:

	STATNAME	GROWTHRATE
12	NAGALAND	-0.47

In [67]:
```
#increase in percentage of growth rate
diff_per =((55.5-(-.47))/100)*100
diff_per
```

Out[67]:
```
55.97
```

List of states having students less than 10000

In [69]:
```
ls = d[['STATNAME','TOTPOPULAT']]
ls
```

Out[69]:

	STATNAME	TOTPOPULAT
0	JAMMU & KASHMIR	12549
1	HIMACHAL PRADESH	6857
2	PUNJAB	27704
3	CHANDIGARH	1055
4	UTTARAKHAND	10117
5	HARYANA	25353
6	DELHI	16753
7	RAJASTHAN	68621
8	UTTAR PRADESH	199581
9	BIHAR	103805
10	SIKKIM	608
11	ARUNACHAL PRADESH	1383
12	NAGALAND	1981
13	MANIPUR	2722
14	MIZORAM	1091
15	TRIPURA	3671
16	MEGHALAYA	2964
17	ASSAM	31169
18	WEST BENGAL	991348
19	JHARKHAND	32966
20	ODISHA	41947
21	CHHATTISGARH	25540
22	MADHYA PRADESH	72598
23	GUJARAT	60384
24	DAMAN & DIU	243
25	DADRA & NAGAR HAVELI	343
26	MAHARASHTRA	112373
27	ANDHRA PRADESH	84666
28	KARNATAKA	61131
29	GOA	1458
30	LAKSHADWEEP	64
31	KERALA	33388
32	TAMIL NADU	72139
33	PUDUCHERRY	1244
34	A & N ISLANDS	380
35	TELANGANA	352

In [73]:
```
x1 = np.array(d['STATNAME'])
x1
```

Out[73]:
```
array(['JAMMU & KASHMIR', 'HIMACHAL PRADESH', 'PUNJAB', 'CHANDIGARH',
       'UTTARAKHAND', 'HARYANA', 'DELHI', 'RAJASTHAN', 'UTTAR PRADESH',
       'BIHAR', 'SIKKIM', 'ARUNACHAL PRADESH', 'NAGALAND', 'MANIPUR',
       'MIZORAM', 'TRIPURA', 'MEGHALAYA', 'ASSAM', 'WEST BENGAL',
       'JHARKHAND', 'ODISHA', 'CHHATTISGARH', 'MADHYA PRADESH', 'GUJARAT',
       'DAMAN & DIU', 'DADRA & NAGAR HAVELI', 'MAHARASHTRA',
       'ANDHRA PRADESH', 'KARNATAKA', 'GOA', 'LAKSHADWEEP', 'KERALA',
       'TAMIL NADU', 'PUDUCHERRY', 'A & N ISLANDS', 'TELANGANA'],
      dtype=object)
```

In [74]:
```
x2 = np.array(d['TOTPOPULAT'])
x2
```

Out[74]:
```
array([ 12549,   6857,  27704,   1055,  10117,  25353,  16753,  68621,
       199581, 103805,    608,   1383,   1981,   2722,   1091,   3671,
         2964,  31169, 991348,  32966,  41947,  25540,  72598,  60384,
          243,    343, 112373,  84666,  61131,   1458,     64,  33388,
        72139,   1244,    380,    352], dtype=int64)
```

In [82]:
```
y = list(zip(x1,x2))
y
```

Out[82]:
```
[('JAMMU & KASHMIR', 12549),
 ('HIMACHAL PRADESH', 6857),
 ('PUNJAB', 27704),
 ('CHANDIGARH', 1055),
 ('UTTARAKHAND', 10117),
 ('HARYANA', 25353),
 ('DELHI', 16753),
 ('RAJASTHAN', 68621),
 ('UTTAR PRADESH', 199581),
 ('BIHAR', 103805),
 ('SIKKIM', 608),
 ('ARUNACHAL PRADESH', 1383),
 ('NAGALAND', 1981),
 ('MANIPUR', 2722),
 ('MIZORAM', 1091),
 ('TRIPURA', 3671),
 ('MEGHALAYA', 2964),
 ('ASSAM', 31169),
 ('WEST BENGAL', 991348),
 ('JHARKHAND', 32966),
 ('ODISHA', 41947),
 ('CHHATTISGARH', 25540),
 ('MADHYA PRADESH', 72598),
 ('GUJARAT', 60384),
 ('DAMAN & DIU', 243),
 ('DADRA & NAGAR HAVELI', 343),
 ('MAHARASHTRA', 112373),
 ('ANDHRA PRADESH', 84666),
 ('KARNATAKA', 61131),
 ('GOA', 1458),
 ('LAKSHADWEEP', 64),
 ('KERALA', 33388),
 ('TAMIL NADU', 72139),
 ('PUDUCHERRY', 1244),
 ('A & N ISLANDS', 380),
 ('TELANGANA', 352)]
```

In [84]:
```
y.sort(key=lambda x: x[1])
y
```

Out[84]:
```
[('LAKSHADWEEP', 64),
 ('DAMAN & DIU', 243),
 ('DADRA & NAGAR HAVELI', 343),
 ('TELANGANA', 352),
 ('A & N ISLANDS', 380),
 ('SIKKIM', 608),
 ('CHANDIGARH', 1055),
 ('MIZORAM', 1091),
 ('PUDUCHERRY', 1244),
 ('ARUNACHAL PRADESH', 1383),
 ('GOA', 1458),
 ('NAGALAND', 1981),
 ('MANIPUR', 2722),
 ('MEGHALAYA', 2964),
 ('TRIPURA', 3671),
 ('HIMACHAL PRADESH', 6857),
 ('UTTARAKHAND', 10117),
 ('JAMMU & KASHMIR', 12549),
 ('DELHI', 16753),
 ('HARYANA', 25353),
 ('CHHATTISGARH', 25540),
 ('PUNJAB', 27704),
 ('ASSAM', 31169),
 ('JHARKHAND', 32966),
 ('KERALA', 33388),
 ('ODISHA', 41947),
 ('GUJARAT', 60384),
 ('KARNATAKA', 61131),
 ('RAJASTHAN', 68621),
 ('TAMIL NADU', 72139),
 ('MADHYA PRADESH', 72598),
 ('ANDHRA PRADESH', 84666),
 ('BIHAR', 103805),
 ('MAHARASHTRA', 112373),
 ('UTTAR PRADESH', 199581),
 ('WEST BENGAL', 991348)]
```

In [88]:
```
for i,j in y:
    if j>10000:
        print(i, end='\t\t')
```

```
UTTARAKHAND             JAMMU & KASHMIR         DELHI           HARYANA         CH
HATTISGARH              PUNJAB          ASSAM           JHARKHAND               KE
RALA            ODISHA          GUJARAT         KARNATAKA               RAJASTHAN
TAMIL NADU              MADHYA PRADESH          ANDHRA PRADESH          BIHAR
MAHARASHTRA             UTTAR PRADESH           WEST BENGAL
```

In [90]:
```
d.columns
```

Out[90]:
```
Index(['STATNAME', 'DISTRICTS', 'BLOCKS', 'VILLAGES', 'CLUSTERS', 'TOTPOPULAT',
       'P_URB_POP', 'POPULATION_0_6', 'GROWTHRATE', 'SEXRATIO', 'P_SC_POP',
       'P_ST_POP', 'OVERALL_LI', 'FEMALE_LIT', 'MALE_LIT', 'AREA_SQKM',
       'TOT_6_10_15', 'TOT_11_13_15', 'SCHTOT', 'SCHTOTM', 'SCHTOTGR',
       'SCHTOTGA', 'SCHTOTPR', 'SCHBOYTOT', 'ENRTOT', 'ENRTOTG', 'ENRTOTP',
       'ENRTOTM', 'ENRTOTGR', 'ENRTOTPR', 'TCHTOTG', 'TCHTOTP', 'TCHTOTM',
       'SCLSTOT', 'STCHTOT', 'ROADTOT', 'SPLAYTOT', 'SBNDRTOT', 'SGTOILTOT',
       'SBTOILTOT', 'ESTDTOT', 'MDMTOT', 'KITTOT', 'KITSTOT', 'ENR50TOT',
       'CLSTOT', 'TCHTOT', 'TCHFTOT', 'TCHMTOT', 'ENRGTOT'],
      dtype='object')
```

Give statewise male students and female students

In [93]:
```
d[['STATNAME','TOTPOPULAT','SEXRATIO']]
```

Out[93]:

	STATNAME	TOTPOPULAT	SEXRATIO
0	JAMMU & KASHMIR	12549	883
1	HIMACHAL PRADESH	6857	974
2	PUNJAB	27704	893
3	CHANDIGARH	1055	818
4	UTTARAKHAND	10117	963
5	HARYANA	25353	877
6	DELHI	16753	866
7	RAJASTHAN	68621	926
8	UTTAR PRADESH	199581	908
9	BIHAR	103805	916
10	SIKKIM	608	889
11	ARUNACHAL PRADESH	1383	920
12	NAGALAND	1981	931
13	MANIPUR	2722	987
14	MIZORAM	1091	975
15	TRIPURA	3671	961
16	MEGHALAYA	2964	986
17	ASSAM	31169	954
18	WEST BENGAL	991348	947
19	JHARKHAND	32966	947
20	ODISHA	41947	978
21	CHHATTISGARH	25540	991
22	MADHYA PRADESH	72598	930
23	GUJARAT	60384	918
24	DAMAN & DIU	243	618
25	DADRA & NAGAR HAVELI	343	775
26	MAHARASHTRA	112373	925
27	ANDHRA PRADESH	84666	992
28	KARNATAKA	61131	968
29	GOA	1458	968
30	LAKSHADWEEP	64	946
31	KERALA	33388	1084
32	TAMIL NADU	72139	995
33	PUDUCHERRY	1244	1038
34	A & N ISLANDS	380	878
35	TELANGANA	352	987

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: