

## PYTHONIC CODE

1) Number of Aadhaar Identities which are generated in each state.

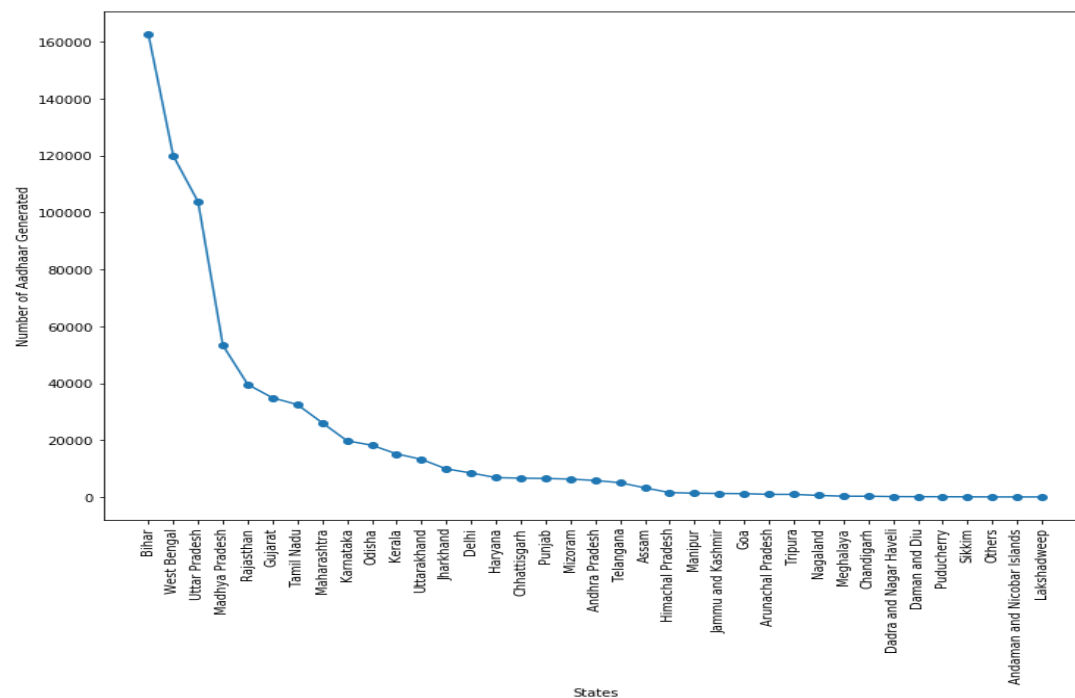
### State vs Aadhaar.py

```
import operator
import csv
import matplotlib.pyplot as plt
raw=[]
data = open('UIDAI.csv', 'r')
next(data)
for line in data:
    raw.append(line.strip().split(','))
mvk={ }
for row in raw:
    k=row[2]
    v=row[8]
    if v!="":
        v=int(float(v))
    else:
        v=0
    if k in mvk:
        mvk[k]+=v
    else:
        mvk[k]=v
sorted_d = dict( sorted(mvk.items(), key=lambda x: x[1], reverse=True))
states=[]
Aadhaars=[]
for key ,value in sorted_d.items():
    states.append(key)
    Aadhaars.append(value)
for i in range(len(states)):
    print(states[i],Aadhaars[i])

plt.plot(states,Aadhaars,marker="o")
plt.xticks(rotation=90)
plt.xlabel("States")
plt.ylabel("Number of Aadhaar Generated")
plt.savefig('States_vs_Aadhaar.png')
plt.show()
```

## OUTPUT

Bihar 162607  
West Bengal 119901  
Uttar Pradesh 103767  
Madhya Pradesh 53276  
Rajasthan 39570  
Gujarat 34844  
Tamil Nadu 32485  
Maharashtra 26085  
Karnataka 19764  
Odisha 18182  
Kerala 15143  
Uttarakhand 13227  
Jharkhand 9868  
Delhi 8426  
Haryana 6804  
Chhattisgarh 6604  
Punjab 6506  
Mizoram 6279  
Andhra Pradesh 5798  
Telangana 5018  
Assam 3213  
Himachal Pradesh 1547  
Manipur 1323  
Jammu and Kashmir 1234  
Goa 1167  
Arunachal Pradesh 913  
Tripura 908  
Nagaland 545  
Meghalaya 277  
Chandigarh 259  
Dadra and Nagar Haveli 140  
Daman and Diu 105  
Puducherry 83  
Sikkim 50  
Others 12  
Andaman and Nicobar Islands 5  
Lakshadweep 4



2) Number of Aadhaar Identities which are generated by each Enrollment Agency.

EnrollAgency\_vs\_Aadhaar.py

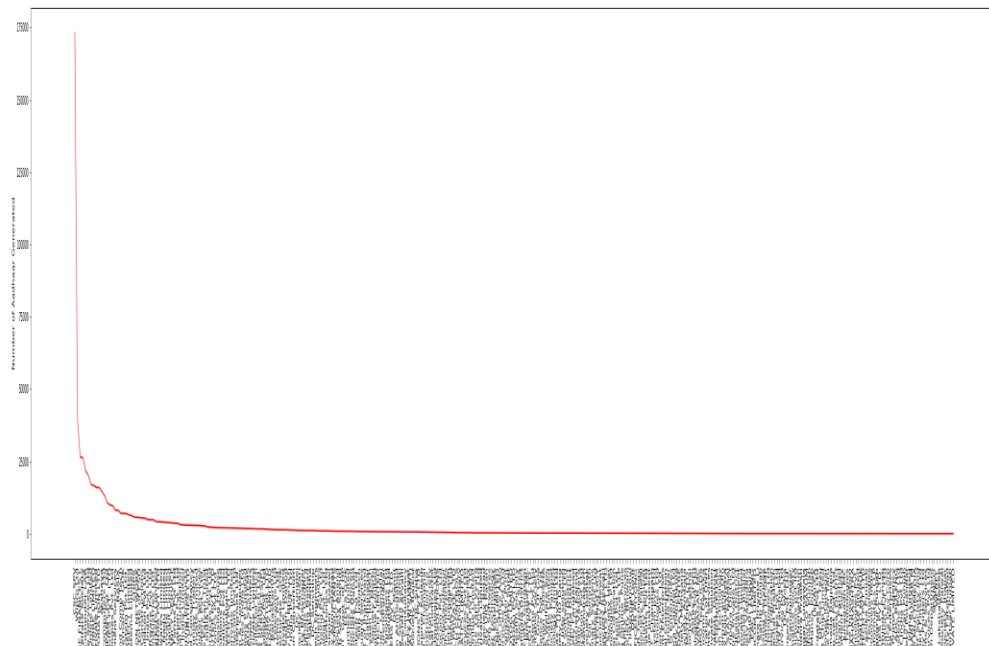
```
import operator
import csv
import matplotlib.pyplot as plt
raw=[]
data = open('UIDAI.csv', 'r')
next(data)
for line in data:
    raw.append(line.strip().split(','))
mvk={ }
for row in raw:
    k=row[1]
    v=row[8]
    if v!="":
        v=int(float(v))
    else:
        v=0
    if k in mvk:
        mvk[k]+=v
    else:
        mvk[k]=v
sorted_d = dict( sorted(mvk.items(), key=lambda x: x[1], reverse=True))
EnrollAgency=[]
Aadhaars=[]
for key ,value in sorted_d.items():
    EnrollAgency.append(key)
    Aadhaars.append(value)
for i in range(0,20):          #printing first 20
    print(EnrollAgency[i], Aadhaars[i])
fig_size[0] = 55
fig_size[1] = 9
plt.rcParams["figure.figsize"] = fig_size
plt.plot(EnrollAgency,Aadhaars,"r")
plt.xticks(rotation=90)
plt.xlabel("Enrollment Agency")
plt.ylabel("Number of Aadhaar Generated")
plt.savefig('EnrollAgency_vs_Aadhaar.png')
plt.show()
```

OUTPUT:

```
CSC SPV 173192
Wipro Ltd 39619
SREI INFRASTRUCTURE FINANCES L 26497
SRM Education And Social Welfare Society 26253
Computer LAB 21823
Rajcomp Info Services Ltd 20163
MPOOnline Limited 17020
AKSH OPTIFIBRE LIMITED 16624
Nielsen India Private Limited 15993
TAMILNADU ARASU CABLE TV CORPORATION LTD 15981
Akshaya 14562
CMS Computers Ltd 13126
IAP COMPANY Pvt. Ltd 10644
VEETECHNOLOGIES PVT. LTD 9922
NPS Technologies Pvt. Ltd 9692
Karvy Data Management Services 8086
BASIX 8079
A I Soc for Electronics and Comp Tech 7041
Centre for e-Governance GOK 7027
Zephyr System Pvt.Ltd. 6946
```

\*Total rows = 325\*

\*Due to large data volume, first 20 are displayed\*



\*If you wish to read the graph, please download “EnrollAgency\_vs\_Aadhaar.png” on your local machine and then open it with a suitable image viewer\*

3) Top 10 districts with maximum Aadhaar identities generated for both Male and Female.

#### Top Districts.py

```
import operator
import csv
import matplotlib.pyplot as plt
raw=[]
data = open('UIDAI.csv', 'r')
next(data)
for line in data:
    raw.append(line.strip().split(','))
mvkmale={ }
mvkfemale={ }
mvk={ }
for row in raw:
    k=row[3]
    v=row[8]
    if v!="":
        v=int(float(v))
    else:
        v=0
    if k in mvk:
        mvk[k]+=v
    else:
        mvk[k]=v
sorted_d = dict( sorted(mvk.items(), key=lambda x: x[1], reverse=True))
top10={k: sorted_d[k] for k in list(sorted_d)[:10]}
#print(top10)
for key ,value in sorted_d.items():
    states.append(key)
    Aadhaars.append(value)
for row in raw:
    k=row[3]
    v=row[8]
    g=row[6]

    if g=="M":
        if v!="":
            v=int(float(v))
        else:
            v=0
        if k in mvkmale:
            mvkmale[k]+=v
        else:
            mvkmale[k]=v
    elif g=="F":
```

```

    if v!="":
        v=int(float(v))
    else:
        v=0
    if k in mvkfemale:
        mvkfemale[k]+=v
    else:
        mvkfemale[k]=v

sorted_male = dict( sorted(mvkmale.items(), key=lambda x: x[1], reverse=True))
sorted_female = dict( sorted(mvkfemale.items(), key=lambda x: x[1], reverse=True))
Dist=[]
male=[]
female=[]
for item in top10:
    Dist.append(item)
    male.append(sorted_male[item])
    female.append(sorted_female[item])

for i in range(0,10):
    print(Dist[i],male[i],female[i])
fig_size[0] = 12
fig_size[1] = 9
plt.rcParams["figure.figsize"] = fig_size
plt.plot(Dist,male,"b",label="male")
plt.plot(Dist,female,"r",label="female")
plt.xticks(rotation=90)
plt.xlabel("Districts")
plt.ylabel("Number of Aadhaar Generated")
plt.legend()
plt.show()

```

OUTPUT:

```

South 24 Parganas 7825 8382
Bardhaman 6077 9744
Bhagalpur 11007 3472
North 24 Parganas 5164 6108
Gaya 5959 4796
Katihar 6968 2511
Patna 6191 2754
Murshidabad 6808 1848
Samastipur 6195 2035
Nadia 5509 2653

```

