In [1]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.linear_model import LogisticRegression
from sklearn.preprocessing import StandardScaler
import re
from sklearn.datasets import load_digits
from sklearn.model_selection import train_test_split
```

set13:

In [103]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book13.csv")
a
```

Out[103]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	2622	MADHYA MAHARASHTRA	1901	18.8	0.6	7.7	36.6	30.4	107.7	215.9	194.1	83.7
1	2623	MADHYA MAHARASHTRA	1902	7.8	0.0	0.1	5.0	9.8	102.6	210.9	114.5	169.5
2	2624	MADHYA MAHARASHTRA	1903	7.6	0.0	0.0	3.2	77.2	86.3	281.8	155.5	142.3
3	2625	MADHYA MAHARASHTRA	1904	0.4	4.7	1.7	3.0	18.7	114.6	126.5	59.5	183.0
4	2626	MADHYA MAHARASHTRA	1905	0.0	1.2	0.0	2.3	23.6	65.0	252.8	79.0	52.6
110	2732	MADHYA MAHARASHTRA	2011	0.0	0.3	0.3	5.0	2.9	133.3	261.4	238.1	148.4
111	2733	MADHYA MAHARASHTRA	2012	0.0	0.0	0.0	3.0	1.4	67.9	203.0	187.8	129.5
112	2734	MADHYA MAHARASHTRA	2013	0.1	5.3	0.8	5.7	6.0	212.4	311.8	147.0	210.3
113	2735	MADHYA MAHARASHTRA	2014	3.1	6.2	24.4	7.5	29.8	44.0	277.9	240.3	120.4
114	2736	MADHYA MAHARASHTRA	2015	1.4	0.8	41.2	9.6	24.4	177.0	111.7	67.2	146.6

115 rows × 20 columns

In [104]:

a.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):
```

#	Column	Non-Null Count	Dtype
0	index	115 non-null	int64
1	SUBDIVISION	115 non-null	object
2	YEAR	115 non-null	int64
3	JAN	115 non-null	float64
4	FEB	115 non-null	float64
5	MAR	115 non-null	float64
6	APR	115 non-null	float64
7	MAY	115 non-null	float64
8	JUN	115 non-null	float64
9	JUL	115 non-null	float64
10	AUG	115 non-null	float64
11	SEP	115 non-null	float64
12	OCT	115 non-null	float64
13	NOV	115 non-null	float64
14	DEC	115 non-null	float64
15	ANNUAL	115 non-null	float64
16	Jan-Feb	115 non-null	float64
17	Mar-May	115 non-null	float64
18	Jun-Sep	115 non-null	float64
19	Oct-Dec		float64
44		7) :-+(4/2) -1	

dtypes: float64(17), int64(2), object(1)

memory usage: 18.1+ KB

In [105]:

```
b=a.fillna(method='ffill')
b
```

Out[105]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	2622	MADHYA MAHARASHTRA	1901	18.8	0.6	7.7	36.6	30.4	107.7	215.9	194.1	83.7
1	2623	MADHYA MAHARASHTRA	1902	7.8	0.0	0.1	5.0	9.8	102.6	210.9	114.5	169.5
2	2624	MADHYA MAHARASHTRA	1903	7.6	0.0	0.0	3.2	77.2	86.3	281.8	155.5	142.3
3	2625	MADHYA MAHARASHTRA	1904	0.4	4.7	1.7	3.0	18.7	114.6	126.5	59.5	183.0
4	2626	MADHYA MAHARASHTRA	1905	0.0	1.2	0.0	2.3	23.6	65.0	252.8	79.0	52.6
110	2732	MADHYA MAHARASHTRA	2011	0.0	0.3	0.3	5.0	2.9	133.3	261.4	238.1	148.4
111	2733	MADHYA MAHARASHTRA	2012	0.0	0.0	0.0	3.0	1.4	67.9	203.0	187.8	129.5
112	2734	MADHYA MAHARASHTRA	2013	0.1	5.3	0.8	5.7	6.0	212.4	311.8	147.0	210.3
113	2735	MADHYA MAHARASHTRA	2014	3.1	6.2	24.4	7.5	29.8	44.0	277.9	240.3	120.4
114	2736	MADHYA MAHARASHTRA	2015	1.4	0.8	41.2	9.6	24.4	177.0	111.7	67.2	146.6
115 r	ows × 2	20 columns										

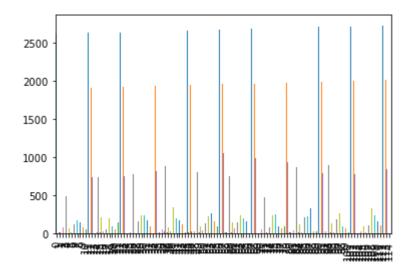
115 rows × 20 columns

In [106]:

b.plot.bar(legend=None)

Out[106]:

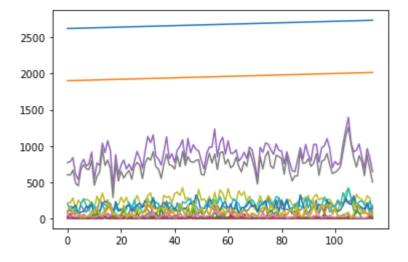
<AxesSubplot:>



In [107]:

b.plot.line(legend=None)

Out[107]:

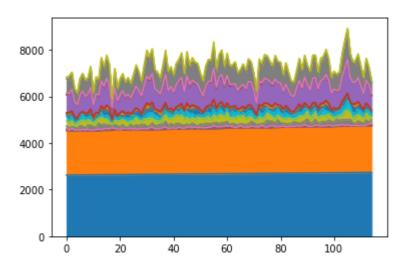


In [108]:

b.plot.area(legend=None)

Out[108]:

<AxesSubplot:>

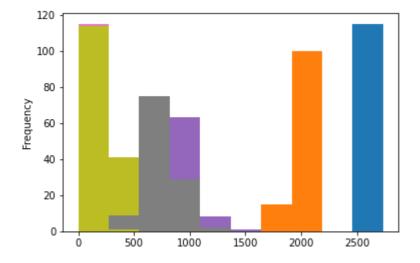


In [109]:

b.plot.hist(legend=None)

Out[109]:

<AxesSubplot:ylabel='Frequency'>

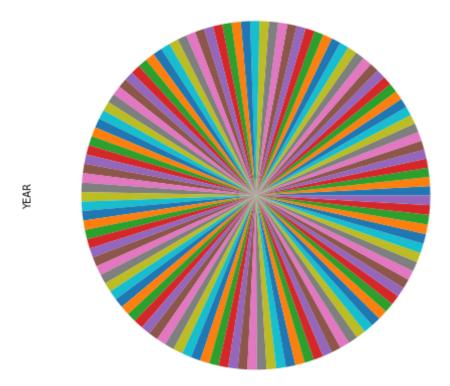


In [110]:

```
b.plot.pie(y='YEAR',figsize=(8,8),labels=None,legend=None)
```

Out[110]:

<AxesSubplot:ylabel='YEAR'>



set14:

In [111]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book14.csv")
a
```

Out[111]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	2507	KONKAN & GOA	1901	5.6	0.1	0.4	35.7	19.9	746.1	1075.5	748.0	117.4
1	2508	KONKAN & GOA	1902	0.3	0.0	0.0	0.4	7.6	428.2	943.6	515.1	613.8
2	2509	KONKAN & GOA	1903	0.0	0.0	0.1	0.0	201.1	470.5	1298.6	673.9	285.1
3	2510	KONKAN & GOA	1904	0.0	0.1	6.6	6.3	4.6	975.8	771.7	321.3	217.0
4	2511	KONKAN & GOA	1905	0.1	0.1	0.0	0.4	8.6	293.7	770.6	305.5	208.3
110	2617	KONKAN & GOA	2011	0.0	0.0	0.0	3.4	1.1	857.0	1384.1	987.9	468.3
111	2618	KONKAN & GOA	2012	0.0	0.0	0.0	0.6	1.1	633.0	928.5	762.5	515.3
112	2619	KONKAN & GOA	2013	1.8	5.4	0.1	0.1	18.5	1028.3	1478.5	497.6	340.7
113	2620	KONKAN & GOA	2014	1.3	5.3	1.8	0.7	21.3	238.2	1293.2	658.0	419.5
114	2621	KONKAN & GOA	2015	2.7	0.0	36.8	3.6	11.3	764.0	526.5	377.3	240.9
11E =		20. aalumna										

115 rows × 20 columns

4

In [112]:

a.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):

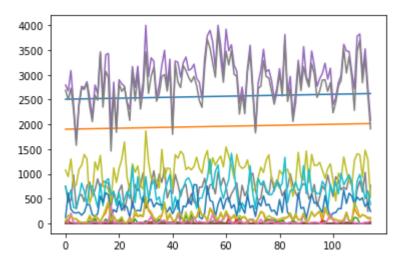
Data	COTAMINS (COC	ar 20 corumns).	
#	Column	Non-Null Count	Dtype
0	index	115 non-null	int64
1	SUBDIVISION	115 non-null	object
2	YEAR	115 non-null	int64
3	JAN	115 non-null	float64
4	FEB	115 non-null	float64
5	MAR	115 non-null	float64
6	APR	115 non-null	float64
7	MAY	115 non-null	float64
8	JUN	115 non-null	float64
9	JUL	115 non-null	float64
10	AUG	115 non-null	float64
11	SEP	115 non-null	float64
12	OCT	115 non-null	float64
13	NOV	115 non-null	float64
14	DEC	115 non-null	float64
15	ANNUAL	115 non-null	float64
16	Jan-Feb	115 non-null	float64
17	Mar-May	115 non-null	float64
18	Jun-Sep	115 non-null	float64
19	Oct-Dec	115 non-null	float64
dtype	es: float64(1	7), int64(2), ob	ject(1)

memory usage: 18.1+ KB

In [113]:

```
a.plot.line(legend=None)
```

Out[113]:

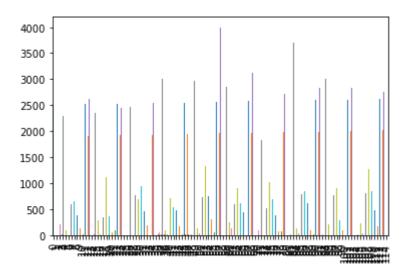


In [114]:

a.plot.bar(legend=None)

Out[114]:

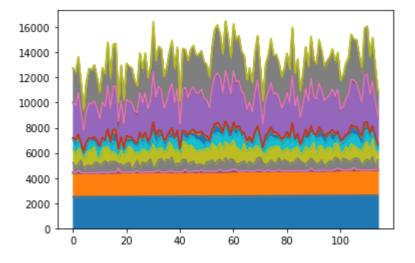
<AxesSubplot:>



In [115]:

a.plot.area(legend=None)

Out[115]:

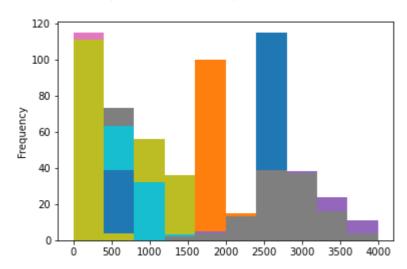


In [116]:

a.plot.hist(legend=None)

Out[116]:

<AxesSubplot:ylabel='Frequency'>

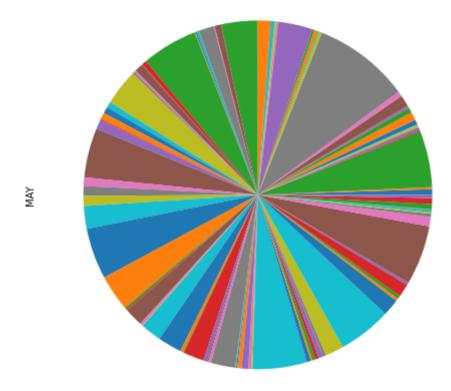


In [117]:

a.plot.pie(y='MAY',figsize=(8,8),labels=None,legend=None)

Out[117]:

<AxesSubplot:ylabel='MAY'>



set15:

In [118]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book15.csv")
a
```

Out[118]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0
0	2392	SAURASHTRA & KUTCH	1901	1.9	0.0	0.1	0.2	3.2	9.1	87.8	62.5	12.0	
1	2393	SAURASHTRA & KUTCH	1902	0.1	0.0	0.0	0.5	1.1	14.4	92.9	160.0	123.9	
2	2394	SAURASHTRA & KUTCH	1903	0.5	0.0	1.7	0.0	3.1	10.5	337.9	96.1	61.9	1
3	2395	SAURASHTRA & KUTCH	1904	1.4	5.8	17.5	0.0	0.0	9.5	111.2	9.4	28.9	
4	2396	SAURASHTRA & KUTCH	1905	1.5	1.0	0.6	0.4	0.0	6.4	254.5	12.3	12.8	
110	2502	SAURASHTRA & KUTCH	2011	0.0	1.4	0.0	0.0	0.0	26.0	212.7	290.9	210.1	
111	2503	SAURASHTRA & KUTCH	2012	0.0	0.0	0.0	0.2	0.1	22.4	34.7	34.5	228.5	
112	2504	SAURASHTRA & KUTCH	2013	1.7	0.2	0.1	8.5	0.1	127.7	171.2	83.3	260.2	2
113	2505	SAURASHTRA & KUTCH	2014	0.3	0.0	0.1	0.5	2.1	17.3	137.7	118.8	99.2	
114	2506	SAURASHTRA & KUTCH	2015	0.9	0.0	4.4	2.1	0.8	112.6	226.7	10.6	79.9	

115 rows × 20 columns

4

In [119]:

a.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):

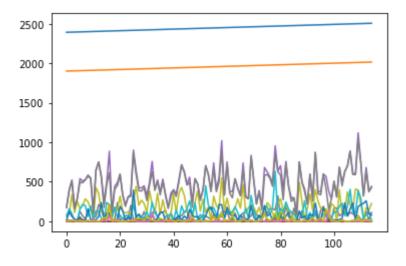
Ducu	COTAMM13 (COC	ar 20 coramiis).	
#	Column	Non-Null Count	Dtype
0	index	115 non-null	int64
1	SUBDIVISION	115 non-null	object
2	YEAR	115 non-null	int64
3	JAN	115 non-null	float64
4	FEB	115 non-null	float64
5	MAR	115 non-null	float64
6	APR	115 non-null	float64
7	MAY	115 non-null	float64
8	JUN	115 non-null	float64
9	JUL	115 non-null	float64
10	AUG	115 non-null	float64
11	SEP	115 non-null	float64
12	OCT	115 non-null	float64
13	NOV	115 non-null	float64
14	DEC	115 non-null	float64
15	ANNUAL	115 non-null	float64
16	Jan-Feb	115 non-null	float64
17	Mar-May	115 non-null	float64
18	Jun-Sep	115 non-null	float64
19	Oct-Dec	115 non-null	float64
dtype	es: float64(1	7), int64(2), ob	ject(1)

memory usage: 18.1+ KB

In [120]:

```
a.plot.line(legend=None)
```

Out[120]:

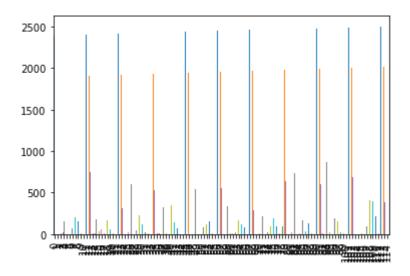


In [121]:

a.plot.bar(legend=None)

Out[121]:

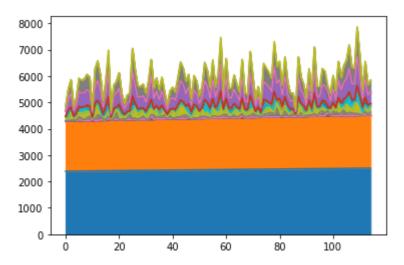
<AxesSubplot:>



In [122]:

a.plot.area(legend=None)

Out[122]:

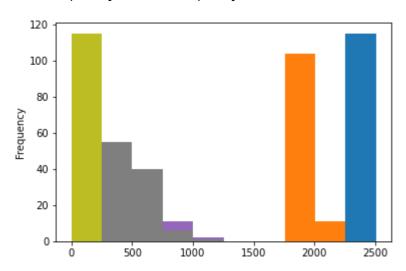


In [123]:

a.plot.hist(legend=None)

Out[123]:

<AxesSubplot:ylabel='Frequency'>

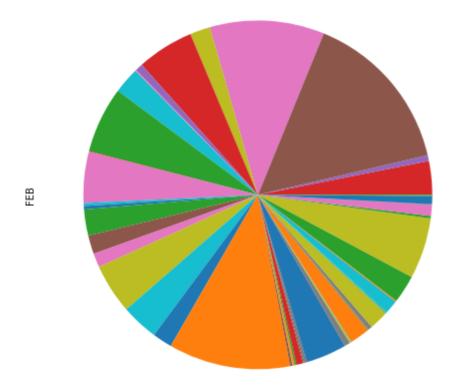


In [124]:

a.plot.pie(y='FEB',figsize=(8,8),labels=None,legend=None)

Out[124]:

<AxesSubplot:ylabel='FEB'>



set16:

In [125]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book16.csv")
a
```

Out[125]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0(
0	2277	GUJARAT REGION	1901	4.2	0.0	0.6	1.6	7.0	60.3	240.2	205.4	18.1	16
1	2278	GUJARAT REGION	1902	3.9	0.0	0.0	0.6	1.0	32.8	229.8	299.0	281.2	2
2	2279	GUJARAT REGION	1903	0.3	0.1	1.4	0.0	12.3	30.1	452.9	202.0	183.2	Ę
3	2280	GUJARAT REGION	1904	0.8	10.6	16.8	0.2	3.9	48.3	194.8	71.8	138.0	6
4	2281	GUJARAT REGION	1905	0.1	0.7	1.1	0.3	0.0	20.1	668.3	37.9	81.3	1
110	2387	GUJARAT REGION	2011	0.0	0.2	0.0	0.0	0.0	16.3	259.2	451.7	162.5	(
111	2388	GUJARAT REGION	2012	0.1	0.0	0.0	0.0	0.0	34.4	178.2	230.3	263.8	7
112	2389	GUJARAT REGION	2013	0.0	0.9	0.1	4.6	0.0	155.7	405.4	211.1	287.3	53
113	2390	GUJARAT REGION	2014	5.7	0.1	0.2	1.0	1.3	11.6	307.5	138.6	235.1	3
114	2391	GUJARAT REGION	2015	1.8	0.0	6.1	5.5	0.9	120.7	354.7	37.4	93.4	2

115 rows × 20 columns

4

In [126]:

a.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):

#	Column	Non-Null Count	Dtype
0	index	115 non-null	int64
1	SUBDIVISION	115 non-null	object
2	YEAR	115 non-null	int64
3	JAN	115 non-null	float64
4	FEB	115 non-null	float64
5	MAR	115 non-null	float64
6	APR	115 non-null	float64
7	MAY	115 non-null	float64
8	JUN	115 non-null	float64
9	JUL	115 non-null	float64
10	AUG	115 non-null	float64
11	SEP	115 non-null	float64
12	OCT	115 non-null	float64
13	NOV	115 non-null	float64
14	DEC	115 non-null	float64
15	ANNUAL	115 non-null	float64
16	Jan-Feb	115 non-null	float64
17	Mar-May	115 non-null	float64
18	Jun-Sep	115 non-null	float64
19	Oct-Dec	115 non-null	float64
d+vn	os: float64/1	7) in+64(2) o	hioc+(1)

dtypes: float64(17), int64(2), object(1)

memory usage: 18.1+ KB

In [127]:

```
b=a.fillna(method='ffill')
b
```

Out[127]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	00
0	2277	GUJARAT REGION	1901	4.2	0.0	0.6	1.6	7.0	60.3	240.2	205.4	18.1	16
1	2278	GUJARAT REGION	1902	3.9	0.0	0.0	0.6	1.0	32.8	229.8	299.0	281.2	2
2	2279	GUJARAT REGION	1903	0.3	0.1	1.4	0.0	12.3	30.1	452.9	202.0	183.2	Ę
3	2280	GUJARAT REGION	1904	0.8	10.6	16.8	0.2	3.9	48.3	194.8	71.8	138.0	6
4	2281	GUJARAT REGION	1905	0.1	0.7	1.1	0.3	0.0	20.1	668.3	37.9	81.3	1
110	2387	GUJARAT REGION	2011	0.0	0.2	0.0	0.0	0.0	16.3	259.2	451.7	162.5	(
111	2388	GUJARAT REGION	2012	0.1	0.0	0.0	0.0	0.0	34.4	178.2	230.3	263.8	7
112	2389	GUJARAT REGION	2013	0.0	0.9	0.1	4.6	0.0	155.7	405.4	211.1	287.3	53
113	2390	GUJARAT REGION	2014	5.7	0.1	0.2	1.0	1.3	11.6	307.5	138.6	235.1	3
114	2391	GUJARAT REGION	2015	1.8	0.0	6.1	5.5	0.9	120.7	354.7	37.4	93.4	2

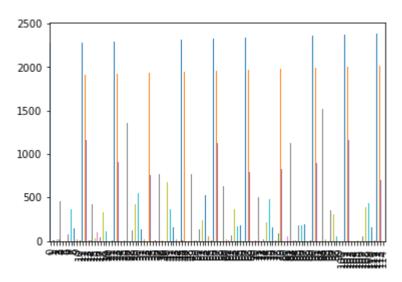
115 rows × 20 columns

In [128]:

b.plot.bar(legend=None)

Out[128]:

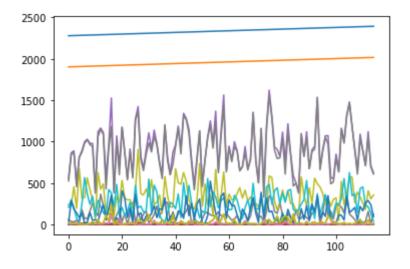
<AxesSubplot:>



In [129]:

b.plot.line(legend=None)

Out[129]:

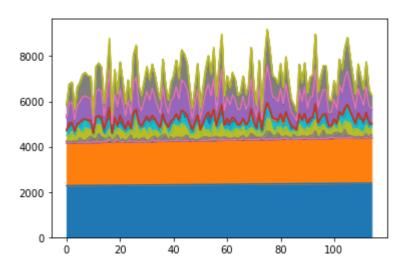


In [130]:

b.plot.area(legend=None)

Out[130]:

<AxesSubplot:>

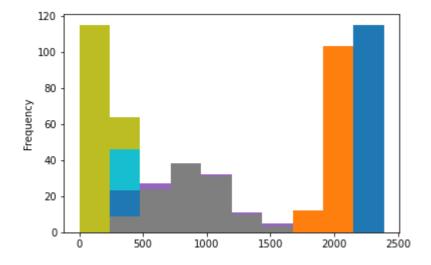


In [131]:

b.plot.hist(legend=None)

Out[131]:

<AxesSubplot:ylabel='Frequency'>

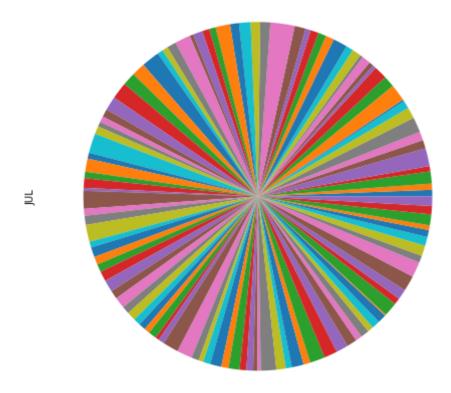


In [132]:

```
b.plot.pie(y='JUL',figsize=(8,8),labels=None,legend=None)
```

Out[132]:

<AxesSubplot:ylabel='JUL'>



set17:

In [133]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book17.csv")
a
```

Out[133]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0
0	2162	EAST MADHYA PRADESH	1901	48.5	38.1	15.7	10.7	6.2	61.0	367.5	589.2	189.9	
1	2163	EAST MADHYA PRADESH	1902	14.9	8.9	0.0	3.6	2.7	28.0	411.9	227.0	236.6	1
2	2164	EAST MADHYA PRADESH	1903	5.6	2.9	0.3	0.9	37.5	67.5	261.4	366.7	257.4	17
3	2165	EAST MADHYA PRADESH	1904	2.0	15.3	48.2	0.0	8.6	109.9	443.2	316.6	135.6	4
4	2166	EAST MADHYA PRADESH	1905	15.9	8.0	14.3	12.3	10.2	34.4	292.4	243.3	250.9	
110	2272	EAST MADHYA PRADESH	2011	0.6	1.9	0.3	7.1	4.7	332.5	323.6	326.9	276.5	
111	2273	EAST MADHYA PRADESH	2012	39.4	0.7	0.6	1.1	1.2	67.8	398.9	351.7	172.6	1
112	2274	EAST MADHYA PRADESH	2013	2.0	43.4	14.1	9.5	0.3	311.9	456.2	480.8	78.0	12
113	2275	EAST MADHYA PRADESH	2014	32.1	49.7	17.8	5.1	2.5	91.8	283.4	231.8	139.6	5
114	2276	EAST MADHYA PRADESH	2015	37.3	11.0	73.4	25.8	6.3	139.2	262.2	272.1	71.6	3
445		20.											

115 rows × 20 columns

In [134]:

a.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):

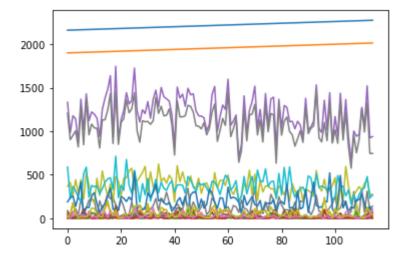
Ducu	COTAMM13 (COC	ar 20 coramiis).	
#	Column	Non-Null Count	Dtype
0	index	115 non-null	int64
1	SUBDIVISION	115 non-null	object
2	YEAR	115 non-null	int64
3	JAN	115 non-null	float64
4	FEB	115 non-null	float64
5	MAR	115 non-null	float64
6	APR	115 non-null	float64
7	MAY	115 non-null	float64
8	JUN	115 non-null	float64
9	JUL	115 non-null	float64
10	AUG	115 non-null	float64
11	SEP	115 non-null	float64
12	OCT	115 non-null	float64
13	NOV	115 non-null	float64
14	DEC	115 non-null	float64
15	ANNUAL	115 non-null	float64
16	Jan-Feb	115 non-null	float64
17	Mar-May	115 non-null	float64
18	Jun-Sep	115 non-null	float64
19	Oct-Dec	115 non-null	float64
dtype	es: float64(1	7), int64(2), ob	ject(1)

memory usage: 18.1+ KB

In [135]:

```
a.plot.line(legend=None)
```

Out[135]:

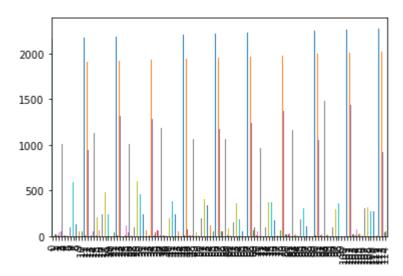


In [136]:

a.plot.bar(legend=None)

Out[136]:

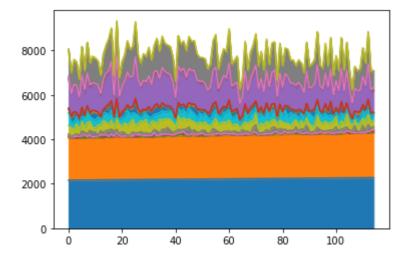
<AxesSubplot:>



In [137]:

a.plot.area(legend=None)

Out[137]:

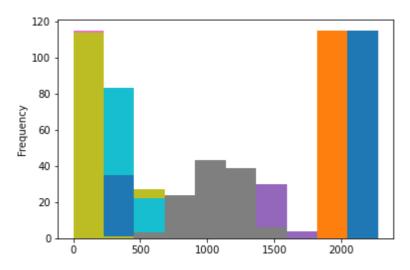


In [138]:

a.plot.hist(legend=None)

Out[138]:

<AxesSubplot:ylabel='Frequency'>

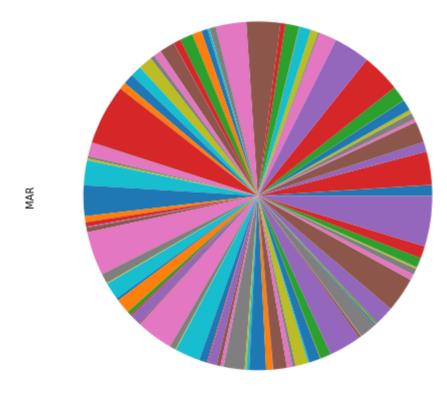


In [139]:

a.plot.pie(y='MAR',figsize=(8,8),labels=None,legend=None)

Out[139]:

<AxesSubplot:ylabel='MAR'>



set18:

In [140]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book18.csv")
a
```

Out[140]:

i	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	00
0	2047	WEST MADHYA PRADESH	1901	25.8	5.8	5.8	2.8	2.1	41.2	228.9	349.9	47.9	Ę
1	2048	WEST MADHYA PRADESH	1902	22.1	8.4	0.0	2.0	5.9	35.9	401.9	179.4	194.1	37
2	2049	WEST MADHYA PRADESH	1903	5.3	0.0	0.0	0.0	22.3	50.6	304.9	261.1	250.2	5ŧ
3	2050	WEST MADHYA PRADESH	1904	3.2	15.5	14.8	0.0	12.0	96.6	273.0	218.6	125.9	3
4	2051	WEST MADHYA PRADESH	1905	3.5	4.4	1.1	0.8	3.0	36.1	326.3	137.6	183.5	(
110	2157	WEST MADHYA PRADESH	2011	0.0	1.7	0.1	1.8	3.6	241.5	306.7	343.3	165.0	(
111	2158	WEST MADHYA PRADESH	2012	6.2	0.0	0.0	0.9	3.1	48.2	439.2	341.2	194.3	2
112	2159	WEST MADHYA PRADESH	2013	1.7	31.1	8.5	2.8	0.4	263.7	485.1	432.6	98.9	68
113	2160	WEST MADHYA PRADESH	2014	25.6	34.4	4.6	1.4	1.4	30.6	337.4	211.0	192.6	7
114	2161	WEST MADHYA PRADESH	2015	40.2	6.4	53.5	13.3	2.0	154.1	428.2	276.6	55.6	1 1

115 rows × 20 columns

In [141]:

a.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):

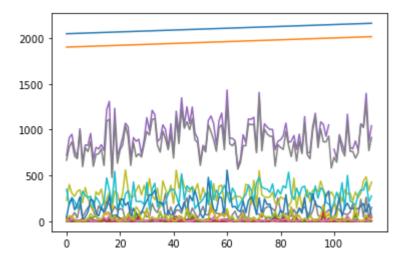
Data	COTAMINS (COC	ar 20 corumns).		
#	Column	Non-Null Count	Dtype	
0	index	115 non-null	int64	
1	SUBDIVISION	115 non-null	object	
2	YEAR	115 non-null	int64	
3	JAN	115 non-null	float64	
4	FEB	114 non-null	float64	
5	MAR	115 non-null	float64	
6	APR	115 non-null	float64	
7	MAY	115 non-null	float64	
8	JUN	115 non-null	float64	
9	JUL	115 non-null	float64	
10	AUG	115 non-null	float64	
11	SEP	115 non-null	float64	
12	OCT	115 non-null	float64	
13	NOV	115 non-null	float64	
14	DEC	115 non-null	float64	
15	ANNUAL	114 non-null	float64	
16	Jan-Feb	114 non-null	float64	
17	Mar-May	115 non-null	float64	
18	Jun-Sep	115 non-null	float64	
19	Oct-Dec	115 non-null	float64	
<pre>dtypes: float64(17), int64(2), object(1)</pre>				

memory usage: 18.1+ KB

In [142]:

```
a.plot.line(legend=None)
```

Out[142]:

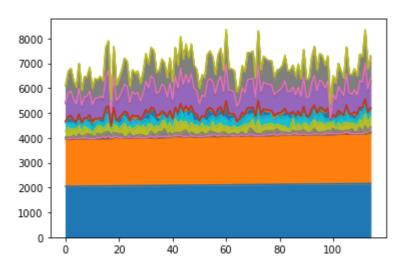


In [143]:

a.plot.area(legend=None)

Out[143]:

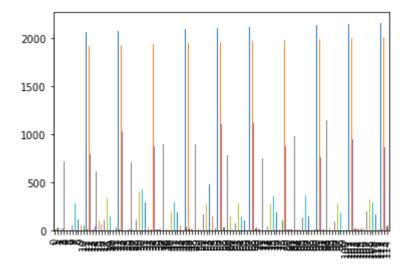
<AxesSubplot:>



In [144]:

a.plot.bar(legend=None)

Out[144]:

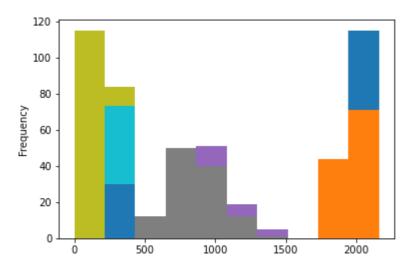


In [145]:

a.plot.hist(legend=None)

Out[145]:

<AxesSubplot:ylabel='Frequency'>

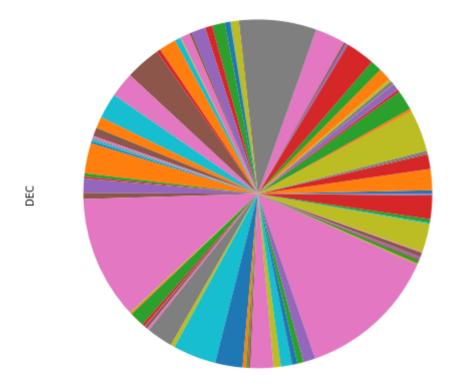


In [146]:

a.plot.pie(y='DEC',figsize=(8,8),labels=None,legend=None)

Out[146]:

<AxesSubplot:ylabel='DEC'>



In []:		