# Vijay(Book21) 04/08/2023

#### Out[2]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0
0	1702	JAMMU & KASHMIR	1901	66.4	69.3	69.6	132.2	105.8	53.4	171.7	181.3	101.8	2
1	1703	JAMMU & KASHMIR	1902	6.5	9.7	91.3	100.5	70.7	113.3	108.4	136.9	62.2	1
2	1704	JAMMU & KASHMIR	1903	96.2	21.5	238.6	58.7	57.3	18.9	332.5	218.6	176.9	1
3	1705	JAMMU & KASHMIR	1904	110.6	17.3	145.2	64.5	67.8	25.9	182.3	132.2	62.3	5
4	1706	JAMMU & KASHMIR	1905	146.7	76.3	161.4	71.7	65.2	43.3	145.2	111.5	239.7	
110	1812	JAMMU & KASHMIR	2011	43.4	211.6	97.8	89.0	32.4	72.5	81.6	131.2	72.0	1
111	1813	JAMMU & KASHMIR	2012	150.9	95.8	45.2	86.6	48.9	32.6	118.8	264.9	106.7	1
112	1814	JAMMU & KASHMIR	2013	52.2	136.4	41.9	47.4	47.4	80.5	125.1	219.1	41.2	3
113	1815	JAMMU & KASHMIR	2014	75.8	64.0	153.1	76.1	52.7	25.3	100.5	134.6	362.8	3
114	1816	JAMMU & KASHMIR	2015	27.9	187.2	341.4	173.3	64.6	121.4	233.2	129.2	130.2	8

115 rows × 20 columns

```
In [3]: 1 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	114 non-null	float64				
10	AUG	115 non-null	float64				
11	SEP	115 non-null	float64				
12	OCT	115 non-null	float64				
13	NOV	114 non-null	float64				
14	DEC	114 non-null	float64				
<b>1</b> 5	ANNUAL	114 non-null	float64				
16	Jan-Feb	115 non-null	float64				
17	Mar-May	115 non-null	float64				
18	Jun-Sep	114 non-null	float64				
19	Oct-Dec	114 non-null	float64				
dtypes: float64(17), int64(2), object(1)							

memory usage: 18.1+ KB

localhost:8888/notebooks/Project 2.ipynb#Vijay(Book2)-04/08/2023

In [4]: 1 b=a.fillna(method='ffill')
2 b

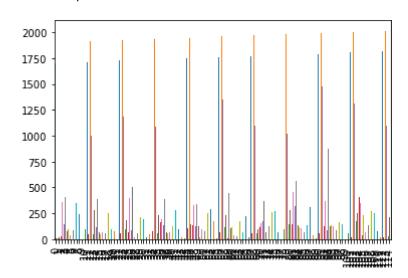
# Out[4]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0
0	1702	JAMMU & KASHMIR	1901	66.4	69.3	69.6	132.2	105.8	53.4	171.7	181.3	101.8	2
1	1703	JAMMU & KASHMIR	1902	6.5	9.7	91.3	100.5	70.7	113.3	108.4	136.9	62.2	1
2	1704	JAMMU & KASHMIR	1903	96.2	21.5	238.6	58.7	57.3	18.9	332.5	218.6	176.9	1
3	1705	JAMMU & KASHMIR	1904	110.6	17.3	145.2	64.5	67.8	25.9	182.3	132.2	62.3	5
4	1706	JAMMU & KASHMIR	1905	146.7	76.3	161.4	71.7	65.2	43.3	145.2	111.5	239.7	
110	1812	JAMMU & KASHMIR	2011	43.4	211.6	97.8	89.0	32.4	72.5	81.6	131.2	72.0	1
111	1813	JAMMU & KASHMIR	2012	150.9	95.8	45.2	86.6	48.9	32.6	118.8	264.9	106.7	1
112	1814	JAMMU & KASHMIR	2013	52.2	136.4	41.9	47.4	47.4	80.5	125.1	219.1	41.2	3
113	1815	JAMMU & KASHMIR	2014	75.8	64.0	153.1	76.1	52.7	25.3	100.5	134.6	362.8	3
114	1816	JAMMU & KASHMIR	2015	27.9	187.2	341.4	173.3	64.6	121.4	233.2	129.2	130.2	8

#### 115 rows × 20 columns

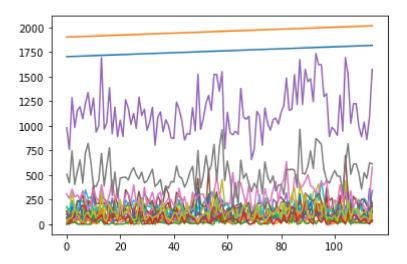
In [5]: 1 b.plot.bar(legend=None)

# Out[5]: <AxesSubplot:>



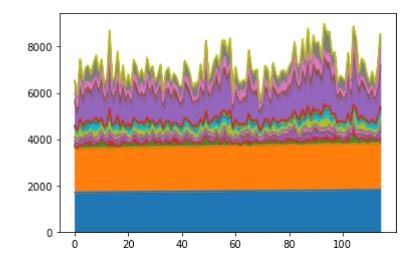
In [6]: 1 b.plot.line(legend=None)

### Out[6]: <AxesSubplot:>



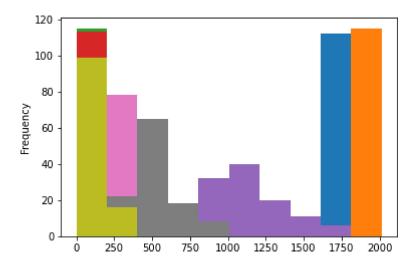
In [7]: 1 b.plot.area(legend=None)

# Out[7]: <AxesSubplot:>



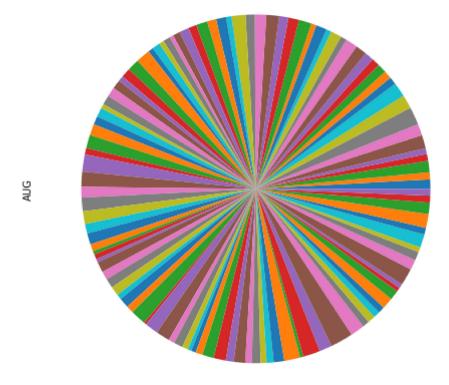
In [8]: 1 b.plot.hist(legend=None)

Out[8]: <AxesSubplot:ylabel='Frequency'>



In [10]: 1 b.plot.pie(y='AUG',figsize=(8,8),labels=None,legend=None)

Out[10]: <AxesSubplot:ylabel='AUG'>



In [ ]: 1