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

Out[2]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	(
0	0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	3
1	1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	1:
2	2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	1
3	3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	2.
4	4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	2
105	105	ANDAMAN & NICOBAR ISLANDS	2011	265.9	84.8	272.8	111.4	326.5	383.2	583.2	441.5	757.1	2
106	106	ANDAMAN & NICOBAR ISLANDS	2012	119.9	45.6	30.9	55.8	533.9	458.2	317.3	369.6	868.9	2
107	107	ANDAMAN & NICOBAR ISLANDS	2013	67.1	37.6	43.0	46.3	509.3	777.0	564.8	336.7	473.6	4
108	108	ANDAMAN & NICOBAR ISLANDS	2014	41.9	8.6	0.0	11.1	238.0	416.6	467.6	321.6	412.9	4
109	109	ANDAMAN & NICOBAR ISLANDS	2015	126.8	7.6	3.1	138.2	331.9	346.4	328.9	480.0	523.3	2

110 rows × 20 columns

In [3]: df=df.dropna()
 df

Out[3]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	(
0	0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	3
1	1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	1:
2	2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	1
3	3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	2.
4	4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	2
105	105	ANDAMAN & NICOBAR ISLANDS	2011	265.9	84.8	272.8	111.4	326.5	383.2	583.2	441.5	757.1	2
106	106	ANDAMAN & NICOBAR ISLANDS	2012	119.9	45.6	30.9	55.8	533.9	458.2	317.3	369.6	868.9	2
107	107	ANDAMAN & NICOBAR ISLANDS	2013	67.1	37.6	43.0	46.3	509.3	777.0	564.8	336.7	473.6	4
108	108	ANDAMAN & NICOBAR ISLANDS	2014	41.9	8.6	0.0	11.1	238.0	416.6	467.6	321.6	412.9	4
109	109	ANDAMAN & NICOBAR ISLANDS	2015	126.8	7.6	3.1	138.2	331.9	346.4	328.9	480.0	523.3	2

104 rows × 20 columns

In [4]: df.columns

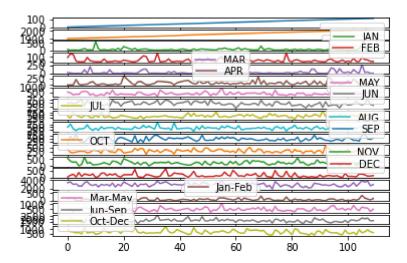
In [5]: df.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 104 entries, 0 to 109
Data columns (total 20 columns):

_ 0. 0 0.	())	,.	
#	Column	Non-Null Count	Dtype
0	index	104 non-null	int64
1	SUBDIVISION	104 non-null	object
2	YEAR	104 non-null	int64
3	JAN	104 non-null	float64
4	FEB	104 non-null	float64
5	MAR	104 non-null	float64
6	APR	104 non-null	float64
7	MAY	104 non-null	float64
8	JUN	104 non-null	float64
9	JUL	104 non-null	float64
10	AUG	104 non-null	float64
11	SEP	104 non-null	float64
12	OCT	104 non-null	float64
13	NOV	104 non-null	float64
14	DEC	104 non-null	float64
15	ANNUAL	104 non-null	float64
16	Jan-Feb	104 non-null	float64
17	Mar-May	104 non-null	float64
18	Jun-Sep	104 non-null	float64
19	Oct-Dec	104 non-null	float64
dtyp	es: float64(1	7), int64(2), o	bject(1)
memo	ry usage: 17.	1+ KB	

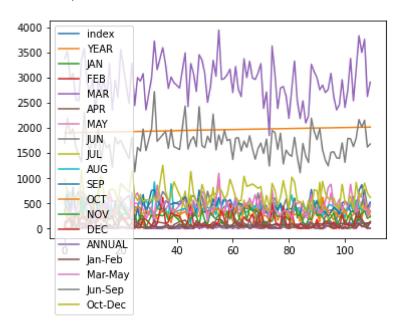
In [6]: | df.plot.line(subplots=True)

Out[6]: array([<AxesSubplot:>, <AxesSubplot:>, <AxesSubplot:>], dtype=object)



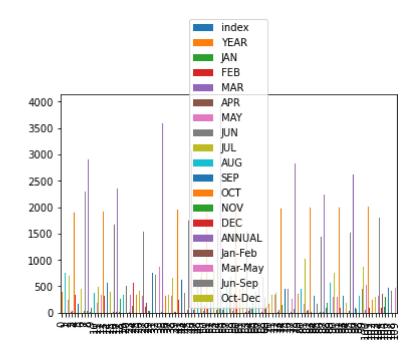
In [7]: df.plot.line()

Out[7]: <AxesSubplot:>



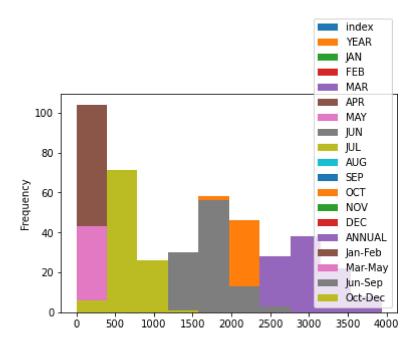
In [8]: df.plot.bar()

Out[8]: <AxesSubplot:>



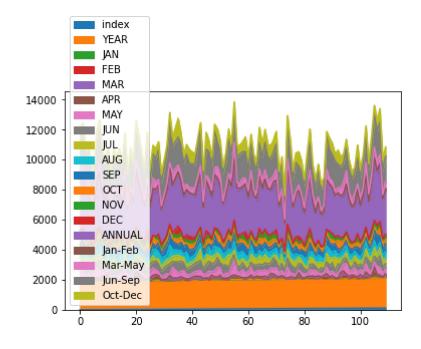
In [9]: df.plot.hist()

Out[9]: <AxesSubplot:ylabel='Frequency'>



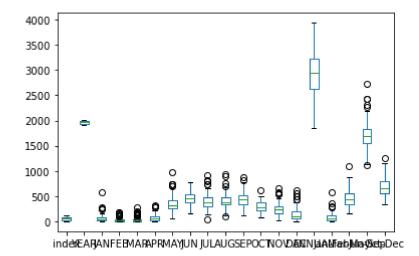
In [10]: df.plot.area()

Out[10]: <AxesSubplot:>

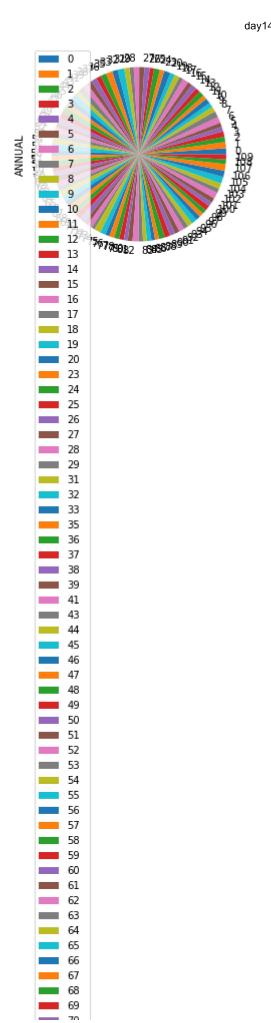


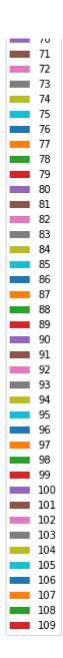
In [11]: df.plot.box()

Out[11]: <AxesSubplot:>



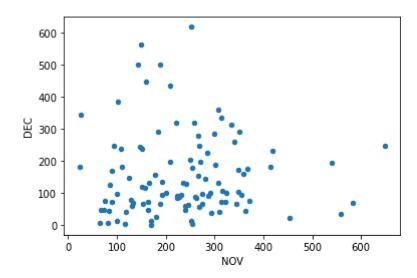
```
In [12]: df.plot.pie(y='ANNUAL')
Out[12]: <AxesSubplot:ylabel='ANNUAL'>
```





In [18]: df.plot.scatter(x='NOV',y='DEC')

Out[18]: <AxesSubplot:xlabel='NOV', ylabel='DEC'>



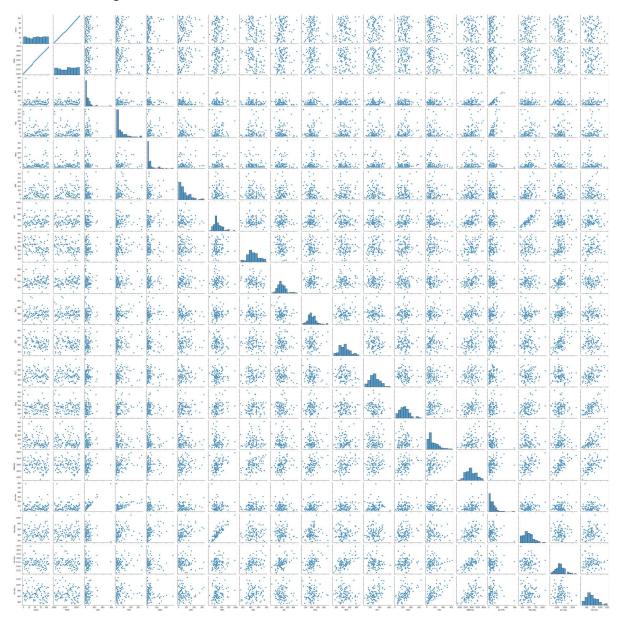
In [19]: df.describe()

Out[19]:

	index	YEAR	JAN	FEB	MAR	APR	MAY	
count	104.000000	104.000000	104.000000	104.000000	104.000000	104.000000	104.000000	10∠
mean	55.826923	1960.355769	53.829808	28.299038	31.080769	71.473077	361.098077	465
std	32.254884	34.010826	75.012392	38.286466	48.842153	66.908670	150.341139	136
min	0.000000	1901.000000	0.000000	0.000000	0.000000	0.000000	62.000000	148
25%	27.750000	1929.750000	10.200000	1.775000	2.300000	21.025000	263.125000	369
50%	57.500000	1963.500000	31.750000	12.800000	12.100000	52.300000	321.050000	450
75%	83.250000	1989.250000	76.275000	36.325000	31.775000	103.350000	425.325000	545
max	109.000000	2015.000000	583.700000	173.800000	272.800000	323.100000	973.100000	777
4								•

In [20]: sns.pairplot(df)

Out[20]: <seaborn.axisgrid.PairGrid at 0x262afb0b310>

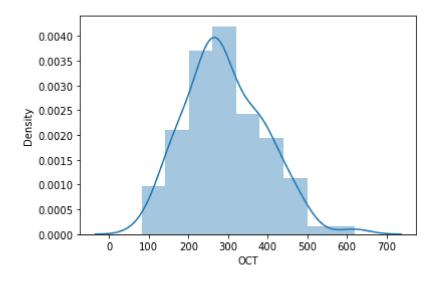


In [21]: |sns.distplot(df['OCT'])

C:\ProgramData\Anaconda3\lib\site-packages\seaborn\distributions.py:2557: Fut ureWarning: `distplot` is a deprecated function and will be removed in a futu re version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for hi stograms).

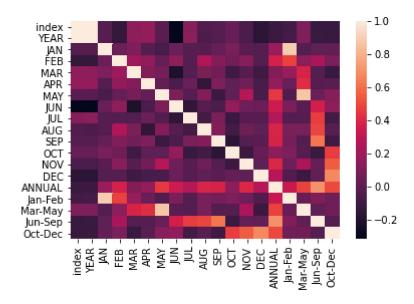
warnings.warn(msg, FutureWarning)

Out[21]: <AxesSubplot:xlabel='OCT', ylabel='Density'>



In [22]: sns.heatmap(df.corr())

Out[22]: <AxesSubplot:>



In []: