In [1]: import pandas as pd

In [2]: data=pd.read_csv("/home/placement/Downloads/arunachal.csv")

In [3]: data

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	Unnamed	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	
	0 11	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN	117.9	811.8	_
	1 11	ARUNACHAL PRADESH	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN	185.9	NaN	:
	2 11:	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	5486.3	21.4	1196.9	,
	3 113	3 ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4693.9	102.3	706.0	:
	4 11	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	4106.7	210.3	1143.9	:
8	36 19	ARUNACHAL PRADESH	2005	48.4	167.6	229.5	195.3	179.8	269.3	430.8	400.0	243.6	139.3	28.6	3.3	2335.5	216.0	604.6	•
8	37 19	, ARUNACHAL PRADESH	2006	6.0	103.7	63.3	202.7	321.7	520.4	382.2	227.6	263.2	77.2	69.7	21.7	2259.6	109.7	587.7	:
8	38 198	3 ARUNACHAL PRADESH	2007	13.4	97.4	48.1	292.4	250.4	530.2	761.0	364.6	529.3	102.6	24.3	6.9	3020.7	110.8	590.9	:
8	39 199	ARUNACHAL PRADESH	2008	76.7	39.7	122.6	192.4	185.0	423.6	456.1	439.3	189.7	115.1	1.7	2.6	2244.4	116.4	499.9	
9	90 200	ARUNACHAL PRADESH	2009	18.0	92.8	72.1	132.7	189.9	259.1	329.9	370.3	152.5	82.9	33.9	15.9	1749.9	110.8	394.7	

91 rows × 20 columns

```
In [4]: list(data)
Out[4]: ['Unnamed: 0',
          'SUBDIVISION',
          'YEAR',
          'JAN',
          'FEB',
          'MAR',
          'APR',
          'MAY',
          'JUN',
          'JUL',
          'AUG',
          'SEP',
          'OCT',
          'NOV',
          'DEC',
          'ANNUAL',
          'Jan-Feb',
          'Mar-May',
          'Jun-Sep',
          'Oct-Dec']
In [7]: datal=data.drop(['Unnamed: 0'],axis=1)
```

```
In [8]: data1.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 91 entries, 0 to 90
Data columns (total 19 columns):
     Column
                  Non-Null Count
                                  Dtype
 0
     SUBDIVISION
                  91 non-null
                                   object
 1
     YEAR
                  91 non-null
                                   int64
 2
                  90 non-null
                                   float64
     JAN
 3
                  90 non-null
                                   float64
     FEB
 4
                  89 non-null
                                   float64
     MAR
                  91 non-null
 5
     APR
                                   float64
 6
                  91 non-null
                                   float64
     MAY
     JUN
                  90 non-null
                                   float64
                  90 non-null
                                   float64
 8
     JUL
 9
     AUG
                  91 non-null
                                   float64
 10
     SEP
                  91 non-null
                                   float64
 11
     0CT
                  89 non-null
                                   float64
 12
                  89 non-null
                                   float64
     NOV
                  89 non-null
 13
     DEC
                                   float64
 14
     ANNUAL
                  85 non-null
                                   float64
    Jan-Feb
                  90 non-null
                                   float64
 15
                                   float64
 16
    Mar-May
                  89 non-null
 17 Jun-Sep
                  89 non-null
                                   float64
 18 Oct-Dec
                  88 non-null
                                   float64
dtypes: float64(17), int64(1), object(1)
memory usage: 13.6+ KB
```

```
In [13]: data.isna().sum()
Out[13]: Unnamed: 0
                         0
         SUBDIVISION
                         0
         YEAR
                         0
         JAN
                         1
         FEB
                         1
         MAR
                         2
         APR
         MAY
         JUN
         JUL
         AUG
                         0
         SEP
                         0
         0CT
         NOV
         DEC
                         2
         ANNUAL
                         6
         Jan-Feb
                         1
         Mar-May
         Jun-Sep
         Oct-Dec
         dtype: int64
In [14]: data2=data1.fillna(data.mean())
```

/tmp/ipykernel_14797/3105188393.py:1: FutureWarning: The default value of numeric_only in DataFrame.mean is deprecated. In a future version, it will default to False. In addition, specifying 'numeric_only=None' is deprecated. Select only valid columns or specify the value of numeric_only to silence this warning.

data2=data1.fillna(data.mean())

In	[15]:	data2.isna().	sum()
0u1	:[15]:	SUBDIVISION	0
		YEAR	0
		JAN	0
		FEB	0
		MAR	0
		APR	0
		MAY	0
		JUN	0
		JUL	0
		AUG	0
		SEP	0
		0CT	0
		NOV	0
		DEC	0
		ANNUAL	0
		Jan-Feb	0
		Mar-May	0
		Jun-Sep	0
		Oct-Dec	0
		dtype: int64	

data2.head() In [16]: Out[16]: SUBDIVISION YEAR JAN **FEB** MAR APR MAY JUN JUL AUG **SEP** OCT NOV **DEC ANNUAL** ARUNACHAL 1916 48.1 69.8 71.100000 316.1 424.6 1124.9 711.963333 629.7 333.9 200.37191 36.257303 24.91573 3475.443529 PRADESH ARUNACHAL 1917 21.4 164.5 154.446067 269.6 107.9 823.8 909.100000 628.4 63.500000 0.00000 411.5 199.30000 3475.443529 PRADESH ARUNACHAL PRADESH 1918 10.4 11.0 191.200000 144.6 861.1 1609.9 1303.000000 692.6 515.8 125.20000 7.800000 13.70000 5486.300000 ARUNACHAL 1919 34.5 28.500000 256.9 420.6 973.6 999.000000 286.7 628.7 948.30000 40.700000 8.60000 4693.900000 67.8 PRADESH ARUNACHAL 1920 14.0 196.3 605.600000 364.7 173.6 840.6 535.400000 896.5 376.7 103.30000 0.000000 0.00000 4106.700000 2 **PRADESH** In [17]: data3=data1.fillna(data.mode())

In [18]: data3

Out[18]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oc ⁻ De
0	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	593.0	629.7	333.9	58.5	7.8	0.0	1668.5	117.9	811.8	1111.8	130.
1	ARUNACHAL PRADESH	1917	21.4	164.5	32.9	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	1749.9	185.9	379.7	2772.8	262.
2	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	5486.3	21.4	1196.9	4121.3	146.
3	ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4693.9	102.3	706.0	2888.0	997.
4	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	4106.7	210.3	1143.9	2649.2	103.
86	ARUNACHAL PRADESH	2005	48.4	167.6	229.5	195.3	179.8	269.3	430.8	400.0	243.6	139.3	28.6	3.3	2335.5	216.0	604.6	1343.7	171.
87	ARUNACHAL PRADESH	2006	6.0	103.7	63.3	202.7	321.7	520.4	382.2	227.6	263.2	77.2	69.7	21.7	2259.6	109.7	587.7	1393.5	168.
88	ARUNACHAL PRADESH	2007	13.4	97.4	48.1	292.4	250.4	530.2	761.0	364.6	529.3	102.6	24.3	6.9	3020.7	110.8	590.9	2185.1	133.
89	ARUNACHAL PRADESH	2008	76.7	39.7	122.6	192.4	185.0	423.6	456.1	439.3	189.7	115.1	1.7	2.6	2244.4	116.4	499.9	1508.7	119.
90	ARUNACHAL PRADESH	2009	18.0	92.8	72.1	132.7	189.9	259.1	329.9	370.3	152.5	82.9	33.9	15.9	1749.9	110.8	394.7	1111.8	132.

91 rows × 19 columns

In []: