In [61]: **import** pandas **as** pd

In [62]: data=pd.read\_csv("/home/placement/Desktop/venkatesh/arunachal.csv")

In [63]: data.describe()

Out[63]:

	Unnamed: 0	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEF
count	91.00000	91.000000	90.000000	90.000000	89.000000	91.000000	91.000000	90.000000	90.000000	91.000000	91.000000
mean	155.00000	1962.747253	48.598889	93.966667	154.446067	262.990110	364.651648	659.556667	711.963333	502.163736	433.273626
std	26.41338	27.695003	34.687078	46.258375	87.918484	113.395773	181.095447	311.642230	356.372598	275.716730	204.991358
min	110.00000	1916.000000	1.800000	6.100000	28.500000	94.700000	101.800000	239.400000	233.000000	172.400000	152.500000
25%	132.50000	1938.500000	20.075000	65.625000	101.700000	180.600000	237.150000	425.675000	442.150000	301.100000	282.150000
50%	155.00000	1964.000000	45.400000	87.600000	141.700000	245.400000	314.600000	545.750000	613.000000	411.600000	384.300000
75%	177.50000	1986.500000	65.150000	120.400000	189.600000	335.300000	447.050000	840.400000	922.075000	669.200000	521.150000
max	200.00000	2009.000000	164.500000	208.500000	605.600000	595.100000	1168.600000	1609.900000	2362.800000	1664.600000	1222.000000

```
In [64]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 91 entries, 0 to 90
Data columns (total 20 columns):
     Column
                  Non-Null Count
                                   Dtype
 #
     Unnamed: 0
                                   int64
 0
                  91 non-null
     SUBDIVISION
                  91 non-null
 1
                                   object
 2
                  91 non-null
     YEAR
                                   int64
 3
     JAN
                  90 non-null
                                   float64
                  90 non-null
                                   float64
 4
     FEB
 5
     MAR
                  89 non-null
                                   float64
                  91 non-null
 6
     APR
                                   float64
 7
     MAY
                  91 non-null
                                   float64
 8
                  90 non-null
                                   float64
     JUN
                                   float64
 9
     JUL
                  90 non-null
 10
     AUG
                  91 non-null
                                   float64
     SEP
                  91 non-null
                                   float64
 11
 12
                  89 non-null
                                   float64
     0CT
                                   float64
 13
     NOV
                  89 non-null
                  89 non-null
                                   float64
 14
     DEC
 15
     ANNUAL
                  85 non-null
                                   float64
    Jan-Feb
                  90 non-null
                                   float64
 16
 17
    Mar-May
                  89 non-null
                                   float64
    Jun-Sep
                  89 non-null
                                   float64
 18
 19
    Oct-Dec
                  88 non-null
                                   float64
dtypes: float64(17), int64(2), object(1)
memory usage: 14.3+ KB
```

```
In [65]: list(data)
Out[65]: ['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 [66]: data1=data.drop(['Unnamed: 0'],axis=1)
```

```
In [67]: data1.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 91 entries, 0 to 90
         Data columns (total 19 columns):
              Column
                                            Dtype
          #
                            Non-Null Count
               _ _ _ _ _
               SUBDIVISION
                                             object
                            91 non-null
                            91 non-null
          1
              YEAR
                                             int64
           2
                            90 non-null
                                             float64
               JAN
           3
              FEB
                            90 non-null
                                             float64
                            89 non-null
                                             float64
          4
              MAR
           5
              APR
                            91 non-null
                                             float64
          6
                            91 non-null
                                             float64
              MAY
          7
               JUN
                            90 non-null
                                             float64
          8
                            90 non-null
                                             float64
               JUL
                                             float64
          9
               AUG
                            91 non-null
          10
              SEP
                            91 non-null
                                             float64
              0CT
                            89 non-null
                                             float64
          11
          12
              NOV
                            89 non-null
                                             float64
                            89 non-null
                                             float64
          13
              DEC
                            85 non-null
                                             float64
           14
              ANNUAL
          15
              Jan-Feb
                            90 non-null
                                             float64
              Mar-May
                            89 non-null
                                             float64
           16
          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 [ ]:

```
In [68]: data.isna().sum()
Out[68]: Unnamed: 0
                         0
         SUBDIVISION
                         0
                         0
         YEAR
                         1
         JAN
         FEB
         MAR
                         2
         APR
                         0
         MAY
         JUN
         JUL
         AUG
                         0
         SEP
                         0
         0CT
         NOV
                         2
         DEC
         ANNUAL
                         6
                         1
         Jan-Feb
         Mar-May
                         2
         Jun-Sep
         Oct-Dec
         dtype: int64
In [69]: data2=data1.fillna(data.mean())
```

/tmp/ipykernel 6065/3105188393.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 d eprecated. Select only valid columns or specify the value of numeric only to silence this warning. data2=data1.fillna(data.mean())

In	[70]:	data2.isna().	sum()
0ut	[70]:	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	

In [71]: data2.head()

Out[71]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
0	ARUNACHAL PRADESH	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	_
1	ARUNACHAL PRADESH	1917	21.4	164.5	154.446067	269.6	107.9	823.8	909.100000	628.4	411.5	199.30000	63.500000	0.00000	3475.443529	:
2	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	
3	ARUNACHAL PRADESH	1919	34.5	67.8	28.500000	256.9	420.6	973.6	999.000000	286.7	628.7	948.30000	40.700000	8.60000	4693.900000	:
4	ARUNACHAL PRADESH	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	:
4																

Out[73]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oc. De
	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.
:	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.
;	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.
	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.
8	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.
8	7 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.
8	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.
8	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.
9	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 [ ]: