

```
In [1]: import pandas as pd
import numpy as np
```

```
In [2]: a=pd.read_csv("rainfall.csv")
a.head(100)
```

```
Out[2]:
```

	STATE_UT_NAME	DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
0	ANDAMAN And NICOBAR ISLANDS	NICOBAR	107.3	57.9	65.2	117.0	358.5	295.5	285.0	271.9	354.8	326.0
1	ANDAMAN And NICOBAR ISLANDS	SOUTH ANDAMAN	43.7	26.0	18.6	90.5	374.4	457.2	421.3	423.1	455.6	301.2
2	ANDAMAN And NICOBAR ISLANDS	N & M ANDAMAN	32.7	15.9	8.6	53.4	343.6	503.3	465.4	460.9	454.8	276.1
3	ARUNACHAL PRADESH	LOHIT	42.2	80.8	176.4	358.5	306.4	447.0	660.1	427.8	313.6	167.1
4	ARUNACHAL PRADESH	EAST SIANG	33.3	79.5	105.9	216.5	323.0	738.3	990.9	711.2	568.0	206.9
...
95	SIKKIM	SOUTH SIKKIM	33.5	56.1	61.7	175.5	291.7	464.6	509.0	441.0	356.6	154.7
96	WEST BENGAL	BANKURA	12.0	18.0	22.0	36.3	66.9	215.0	303.2	290.7	242.3	105.2
97	WEST BENGAL	BIRBHUM	13.4	16.1	21.2	30.9	78.7	222.3	313.9	298.8	271.0	105.1
98	WEST BENGAL	BURDWAN	10.7	22.2	19.8	37.8	78.8	198.2	294.1	285.3	251.1	99.8
99	WEST BENGAL	HOOGHLY	11.9	26.6	28.2	50.6	108.5	243.4	316.1	265.1	243.3	102.1

100 rows × 19 columns

```
In [3]: b=a.sort_values(by='ANNUAL',ascending=False)
```

```
In [4]: c=a.iloc[0,1]
print("THE HIGHEST RAIN FALL IN THE ANNUAL DISTICT:",c)
```

THE HIGHEST RAIN FALL IN THE ANNUAL DISTICT: NICOBAR

```
In [5]: df=a.drop(['Jan-Feb', 'Mar-May', 'Jun-Sep', 'Oct-Dec'],axis=1)
df
```

Out[5]:

	STATE_UT_NAME	DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	S
0	ANDAMAN And NICOBAR ISLANDS	NICOBAR	107.3	57.9	65.2	117.0	358.5	295.5	285.0	271.9	35
1	ANDAMAN And NICOBAR ISLANDS	SOUTH ANDAMAN	43.7	26.0	18.6	90.5	374.4	457.2	421.3	423.1	45
2	ANDAMAN And NICOBAR ISLANDS	N & M ANDAMAN	32.7	15.9	8.6	53.4	343.6	503.3	465.4	460.9	45
3	ARUNACHAL PRADESH	LOHIT	42.2	80.8	176.4	358.5	306.4	447.0	660.1	427.8	31
4	ARUNACHAL PRADESH	EAST SIANG	33.3	79.5	105.9	216.5	323.0	738.3	990.9	711.2	56
...
636	KERALA	IDUKKI	13.4	22.1	43.6	150.4	232.6	651.6	788.9	527.3	30
637	KERALA	KASARGOD	2.3	1.0	8.4	46.9	217.6	999.6	1108.5	636.3	26
638	KERALA	PATHANAMTHITTA	19.8	45.2	73.9	184.9	294.7	556.9	539.9	352.7	26
639	KERALA	WAYANAD	4.8	8.3	17.5	83.3	174.6	698.1	1110.4	592.9	23
640	LAKSHADWEEP	LAKSHADWEEP	20.8	14.7	11.8	48.9	171.7	330.2	287.7	217.5	16

641 rows × 15 columns



```
In [6]: df=df.drop(['ANNUAL'],axis=1)
kp=pd.pivot_table(df,index=['STATE_UT_NAME'])
kp
```

Out[6]:

	APR	AUG	DEC	FEB	JAN	JUL	JU
STATE_UT_NAME							
ANDAMAN And NICOBAR ISLANDS	86.966667	385.300000	159.733333	33.266667	61.233333	390.566667	418.666667
ANDHRA PRADESH	19.873913	179.426087	15.565217	7.352174	6.321739	185.365217	114.369565
ARUNACHAL PRADESH	275.162500	378.600000	35.956250	93.293750	53.687500	547.581250	491.381250
ASSAM	181.266667	377.370370	11.440741	31.714815	15.733333	494.844444	465.185185
BIHAR	16.865789	289.481579	5.786842	9.278947	13.134211	340.836842	168.781579
CHANDIGARH	14.800000	287.500000	23.400000	38.900000	44.300000	282.400000	120.000000
CHATISGARH	13.116667	375.338889	5.811111	10.472222	10.377778	375.405556	180.583333
DADAR NAGAR HAVELI	0.000000	655.900000	0.000000	0.300000	0.400000	884.500000	385.100000
DAMAN AND DIU	0.100000	394.600000	0.450000	0.500000	0.550000	583.100000	276.500000
DELHI	8.900000	245.500000	8.600000	16.300000	16.400000	220.700000	59.800000
GOA	7.800000	683.800000	10.200000	0.050000	0.550000	1108.100000	908.100000
GUJARAT	0.507692	257.630769	1.592308	0.392308	0.784615	333.838462	139.246154
HARYANA	7.619048	190.909524	7.914286	16.457143	19.485714	180.361905	51.009524
HIMACHAL PRADESH	47.683333	322.325000	38.225000	80.450000	81.925000	343.825000	108.683333
JAMMU AND KASHMIR	82.268182	167.918182	46.395455	91.645455	77.977273	172.090909	53.604545
JHARKHAND	18.662500	310.316667	6.704167	16.320833	15.837500	333.854167	198.775000
KARNATAKA	36.773333	209.256667	11.170000	2.696667	2.026667	280.700000	204.880000
KERALA	109.021429	417.950000	38.242857	16.200000	9.542857	724.328571	658.707143
LAKSHADWEEP	48.900000	217.500000	58.800000	14.700000	20.800000	287.700000	330.200000
MADHYA PRADESH	3.270000	331.048000	8.790000	9.158000	12.892000	311.088000	114.686000
MAHARASHTRA	6.974286	314.585714	7.417143	3.474286	4.791429	388.894286	240.980000
MANIPUR	150.766667	451.800000	11.788889	55.122222	22.600000	498.055556	487.088889
MEGHALAYA	211.228571	584.371429	11.042857	21.685714	14.900000	857.742857	757.228571
MIZORAM	152.600000	440.588889	15.288889	29.944444	11.566667	452.311111	429.833333
NAGALAND	134.227273	350.872727	10.354545	27.672727	18.481818	395.036364	340.318182
ORISSA	36.653333	363.346667	5.136667	22.370000	10.810000	332.316667	212.516667
PONDICHERRY	12.275000	116.425000	227.350000	25.425000	26.750000	78.025000	47.675000
PUNJAB	12.160000	172.415000	13.905000	24.480000	25.965000	190.610000	46.325000
RAJASTHAN	3.303030	194.554545	3.021212	4.721212	5.348485	195.278788	54.096970
SIKKIM	206.900000	434.600000	20.900000	77.300000	47.550000	499.200000	483.800000

	APR	AUG	DEC	FEB	JAN	JUL	JU
STATE_UT_NAME							
TAMIL NADU	42.596875	91.571875	96.487500	14.021875	18.906250	72.606250	50.32187
TRIPURA	220.750000	356.475000	11.125000	33.650000	11.225000	414.975000	465.42500
UTTAR PRADESH	5.318310	291.232394	6.870423	13.157746	17.183099	280.067606	90.77042
UTTARANCHAL	29.815385	426.784615	20.830769	49.592308	49.892308	432.792308	165.71538
WEST BENGAL	56.647368	361.573684	7.363158	19.084211	15.031579	412.989474	308.53157

In []: