CSV

```
In [1]: import pandas as pd
    a={"a":[1,2,3,4],"b":[11,12,13,14],"c":[10,20,30,40]}
    b=pd.DataFrame(a)
    print(b)
    b.to_csv("pooja.csv") #convert dataframe in b into a CSV file.
    b.to_csv("pooja1.csv",index=False) #default row num will be vanished.
    b.to_csv("pooja2.csv",index=False,header=["P","Q","R"]) #column name will be renamed.
    a b c
    0 1 11 10
```

0 1 11 10

1 2 12 20

2 3 13 30

3 4 14 40

read csv

Out

In [2]: csv1=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv")
 csv1

Out[2]: id city team1 team2 toss_winner toss_decision winner win_by_runs win_by_wickets Royal Challengers Sunrisers Royal Challengers Sunrisers 1 Hyderabad field 35 0 Hyderabad Bangalore Bangalore Hyderabad Rising Pune Rising Pune Rising Pune 2 Mumbai Indians 0 7 Pune field Supergiant Supergiant Supergiant Kolkata Knight Kolkata Knight Kolkata Knight 2 3 Rajkot **Gujarat Lions** field 0 10 Riders Riders Riders Rising Pune 3 4 Kings XI Punjab Kings XI Punjab Kings XI Punjab 0 6 Indore field Supergiant Royal Challengers Royal Challengers Royal Challengers Delhi Daredevils 15 0 Bangalore bat Bangalore Bangalore Bangalore Sunrisers Sunrisers Sunrisers 0 9 6 Hyderabad **Gujarat Lions** field Hyderabad Hyderabad Hyderabad Kolkata Knight 0 Mumbai Mumbai Indians Mumbai Indians 6 7 Mumbai Indians field 4 Riders **Royal Challengers Royal Challengers** 8 Indore Kings XI Punjab bat Kings XI Punjab 0 Bangalore Bangalore Rising Pune Rising Pune 8 9 Delhi Daredevils Delhi Daredevils 97 0 Pune field Supergiant Supergiant Sunrisers Mumbai Indians Mumbai Indians Mumbai Indians 0 9 10 Mumbai field Hyderabad

In [3]: csv2=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv",nrows=3)
#to get rows
csv2
#print(type(csv2))

it[3]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10

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In [4]: csv3=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv",usecols=["toss_decision","toss_winner"])
#to get columns
csv3
```

	toss_winner	toss_decision
0	Royal Challengers Bangalore	field
1	Rising Pune Supergiant	field
2	Kolkata Knight Riders	field
3	Kings XI Punjab	field
4	Royal Challengers Bangalore	bat
5	Sunrisers Hyderabad	field
6	Mumbai Indians	field
7	Royal Challengers Bangalore	bat
8	Rising Pune Supergiant	field
9	Mumbai Indians	field

Out[4]:

In [5]: csv4=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv",usecols=[6,7]) #to get columns by index
 csv4

Out[5]:		winner	win_by_runs
	0	Sunrisers Hyderabad	35
	1	Rising Pune Supergiant	0
	2	Kolkata Knight Riders	0
	3	Kings XI Punjab	0
	4	Royal Challengers Bangalore	15
	5	Sunrisers Hyderabad	0
	6	Mumbai Indians	0
	7	Kings XI Punjab	0
	8	Delhi Daredevils	97
	9	Mumbai Indians	0

In [6]: csv5=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv",skiprows=[3,4]) #to skip rows
 csv5

ut[6]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
	3	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	4	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	5	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	6	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	7	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

Out[7]:	id	team1	team2	toss_winner toss_decision	winner win_by_runs win_by_wickets

city								
Hyderabad	1	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
Pune	2	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
Rajkot	3	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
Indore	4	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
Bangalore	5	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
Hyderabad	6	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
Mumbai	7	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
Indore	8	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
Pune	9	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
Mumbai	10	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [8]: csv7=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv",header=2) #to make a perticular row's values as columns
csv7

[8]:		2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant.1	field	Rising Pune Supergiant.2	0	7
	0	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	1	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	2	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
	3	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	4	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	5	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	6	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	7	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [9]: csv7=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv",names=["p1","p2","p3"]) #to put a header above column
csv7

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id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [10]: csv7=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv", dtype={"win_by_runs":"float"}) #to make int into float values csv7

Out[10]:

:	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35.0	0
1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0.0	7
2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0.0	10
3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0.0	6
4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15.0	0
5	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0.0	9
6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0.0	4
7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0.0	8
8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97.0	0
9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0.0	4

In [11]: csv7=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv", header=None)

#delete column name in original file first then column name will become 0 1 2 3 \dots

csv7

Out[11]:		0	1	2	3	4	5	6	7	8
	0	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	1	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	2	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	3	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	4	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	5	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
	6	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	7	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	8	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	9	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	10	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [12]: csv7=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv", header=None, prefix="P") #delete column name in original file first then column name will become Po,P1,....

C:\Users\Asus\AppData\Local\Temp\ipykernel_16092\166963627.py:1: FutureWarning: The prefix argument has been deprecated a nd will be removed in a future version. Use a list comprehension on the column names in the future.

csv7=pd.read_csv("C:\\Users\\Asus\\Downloads\\IPL.csv", header=None,prefix="P")

C	CSV/=	=pa.reaa_cs	v("C:\\Users\\Asu	s / /Downloads / /IPL	csv", header=No	one,prefix="F	^{,-})		
	P0	P1	P2	Р3	P4	P5	P6	P7	P8
0	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
1	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
2	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
3	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
4	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
5	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
6	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
7	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
8	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
9	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
10	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4