

```
In [4]: import pandas

mydataset = {
    'cars': ["Kia", "Volvo", "Ford"],
    'passings': [3, 7, 2]
}

myvar = pandas.DataFrame(mydataset)

print(myvar)
```

	cars	passings
0	Kia	3
1	Volvo	7
2	Ford	2

```
In [2]: import pandas as pd

mydataset = {
    'cars': ["BMW", "Volvo", "Ford"],
    'passings': [3, 7, 2]
}

myvar = pd.DataFrame(mydataset)

print(myvar)
```

	cars	passings
0	BMW	3
1	Volvo	7
2	Ford	2

```
In [3]: import pandas as pd

print(pd.__version__)
```

1.3.4

In [1]: *# Create series from a list*

```
import pandas as pd

a = [2, 5, 9]

myvar = pd.Series(a)

print(myvar)
```

```
0    2
1    5
2    9
dtype: int64
```

In [2]: *# By using Index argument*

```
import pandas as pd

a = [2, 5, 9]

myvar = pd.Series(a, index = ["x", "y", "z"])

print(myvar)
```

```
x    2
y    5
z    9
dtype: int64
```

In [3]: *# Creating Pandas series from a dictionary*

```
import pandas as pd

calories = {"day1": 690, "day2": 360, "day3": 220}

myvar = pd.Series(calories)

print(myvar)
```

```
day1    690
day2    360
day3    220
dtype: int64
```

```
In [4]: # Creating a series using only day1 and day2
import pandas as pd

calories = {"day1": 690, "day2": 360, "day3": 220}

myvar = pd.Series(calories, index = ["day1", "day2"])

print(myvar)
```

```
day1    690
day2    360
dtype: int64
```

```
In [9]: # Creating a Dataframes
import pandas as pd

data = {
    "calories": [990, 850, 450],
    "duration": [60, 50, 30]
}

myvar = pd.DataFrame(data)

print(myvar)
```

```
   calories  duration
0        990         60
1         850         50
2         450         30
```

```
In [21]: # Load data into a DataFrame object:
df = pd.DataFrame(data)

print(df.loc[2])
```

```
calories    390
duration     45
Name: 2, dtype: int64
```

```
In [24]: # Use a List of indexes:
print(df.loc[[0, 2]])
```

```
   calories  duration
0         420         50
2         390         45
```

```
In [26]: # Named Indexes
import pandas as pd

data = {
    "calories": [990, 850, 450],
    "duration": [60, 50, 30]
}

df = pd.DataFrame(data, index = ["day1", "day2", "day3"])

print(df)
```

	calories	duration
day1	990	60
day2	850	50
day3	450	30

```
In [27]: # Locate Named Indexes
import pandas as pd

data = {
    "calories": [420, 380, 390],
    "duration": [50, 40, 45]
}

df = pd.DataFrame(data, index = ["day1", "day2", "day3"])

print(df.loc["day2"])
```

calories	380
duration	40

Name: day2, dtype: int64

```
In [28]: # Load Files Into a DataFrame
import pandas as pd

df = pd.read_csv('data.csv')

print(df)
```

	name	price
0	Book	25
1	Coke	50
2	Cake	74
3	Pizza	150
4	Burger	95
5	Sandwich	80
6	watch	5000
7	Mobile	25000

```
In [30]: import pandas as pd

df = pd.read_csv('C:\\Users\\CSE22004\\Documents\\VU21CSEN0101226.Manasa\\info.csv')

print(df)
```

	Sno	Names	Marks
0	1	Chaitu	93
1	2	Manasa	97
2	3	Varshitha	95
3	4	Abhigna	96

```
In [40]: import pandas as pd

df = pd.read_csv("C:\\Users\\CSE22004\\Documents\\VU21CSEN0101226.Manasa\\item.csv")

print(df)
```

	Sno	Item	Non Veg
0	1	Paneer	Chickn
1	2	Mushroom	Fish
2	3	Baby Corn	Mutton
3	4	Kaju Paneer	Prawns

```
In [36]: # Series in pandas in int

import pandas as nsk
c=[1,7,5,8,3]
z=nsk.Series(c)
print(z)
```

```
0    1
1    7
2    5
3    8
4    3
dtype: int64
```

```
In [37]: # Series in pandas in float

import pandas as nsk
c=[1,7.5,8.6,3]
z=nsk.Series(c)
print(z)
```

```
0    1.0
1    7.5
2    8.6
3    3.0
dtype: float64
```

```
In [45]: # Remove Rows from dataframe
# Cleaning Data
import pandas as pd

df = pd.read_csv('D://item.csv')
new_df = df.dropna()
print(new_df.to_string())
```

	Sno	Item	Non Veg
0	1	Paneer	Chickn
1	2	Mushroom	Fish
2	3	Baby Corn	Mutton
3	4	Kaju Paneer	Prawns

```
In [17]: # Replace NULL value with the number
import pandas as pd
df = pd.read_csv('D://Names,age,gender.csv')

df.dropna(inplace = True)

print(df.to_string())
```

	SL.No	Names	Age	Gender
0	1	Manasa	18	F
1	2	Abhigna	17	F
2	3	Jayanth	20	M

```
In [29]: # Replace NULL Values with number T
import pandas as pd

df = pd.read_csv('D:\\Names,age,gender.csv')

df.fillna("T", inplace = True)
print(df)
```

	SL.No	Names	Age	Gender
0	1	Manasa	18	F
1	2	Abhigna	17	F
2	3	Jayanth	20	M
3	4	Ramesh	22	T

```
In [35]: # Cleaning Wrong Format
import pandas as pd

df = pd.read_csv('C:\\Users\\CSE22004\\Documents\\VU21CSEN0101226.Manasa\\dob.csv')

df['DOB'] = pd.to_datetime(df['DOB'])

print(df.to_string())
```

	Sno	name	DOB
0	1	chaitu	2004-05-17
1	2	manasa	2003-10-10
2	3	abhigna	2004-06-05

```
In [34]: import pandas as pd

df = pd.read_csv('C:\\Users\\CSE22004\\Documents\\VU21CSEN0101226.Manasa\\marks.csv')

for x in df.index:
    if df.loc[x, "marks"] == 90:
        df.loc[x, "marks"] = 93

print(df.to_string())
```

	Sno	name	marks
0	1	Manasa	100
1	2	Chaitu	93
2	3	Abhigna	95
3	4	Rithika	96
4	5	Riya	92

```
In [2]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.to_string())
```

	Sl.No	Name	Age	Phone no.	Gender	Address	Unnamed: 6 Having P
P	Not	PP					
0	1	Manasa	18	8765433215	F	Gajuwaka	NaN
Y	N						
1	2	Priya	20	9876543211	F	Vadlapudi	NaN
N	Y						
2	3	Raju	24	9807654787	M	Srinagar	NaN
Y	N						
3	4	Ashu	26	8987654678	F	Birla Jctn	NaN
Y	N						
4	5	Ramesh	30	8765442391	M	Gurudwar	NaN
N	Y						
5	6	Yashraj	35	8766540987	M	Autonagar	NaN
Y	N						
6	7	Anjali	42	9878987654	F	Yendada	NaN
N	Y						
7	8	Gayatri	45	8987965432	F	Mindhi	NaN
Y	N						
8	9	Prakash	50	9876565432	M	Jug jnctn	NaN
N	Y						
9	10	Thapesh	54	8769546372	M	Adda road	NaN
Y	N						
10	11	Kalavathi	34	9874321892	F	Agnampudi	NaN
N	Y						
11	12	Khushi	19	8987654356	F	Lankelapalem	NaN
Y	N						
12	13	Riya	44	9875567493	M	Jharkhand	NaN
N	Y						
13	14	Rithika	56	9876475352	M	Jaipur	NaN
N	Y						
14	15	Priyanka	67	9876975436	F	Vijaywada	NaN
Y	N						
15	16	Satyam	70	9878965432	M	Vizinagaram	NaN
N	Y						
16	17	Shasi	68	6768435374	M	Gujarat	NaN
Y	N						
17	18	Hari	78	9456832175	F	Mumbai	NaN
N	Y						
18	19	Piyush	20	9876543435	M	Chennai	NaN
Y	N						
19	20	Dipak	79	9765432114	M	Kochi	NaN
N	Y						
20	21	Guru	80	9876543214	M	Kharakpur	NaN
Y	N						
21	22	Giri	56	9675435775	M	Raipur	NaN
N	Y						
22	23	Giridhar	60	9456231728	M	Goa	NaN
Y	N						


```
In [21]: import pandas as pd  
df = pd.read_csv('D:\\Address, Passport.csv')  
de = pd.DataFrame  
print(de)
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
In [8]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.to_string())
de = df.drop_duplicates(subset="Name",keep="first")
print(de)
```

	Sl.No	Name	Age	Phone no.	Gender	Address
0	1	Manasa	18	8765433215	F	Gajuwaka
1	2	Priya	20	9876543211	F	Vadlapudi
2	3	Raju	24	9807654787	M	Srinagar
3	4	Ashu	26	8987654678	F	Birla Jctn
4	5	Ramesh	30	8765442391	M	Gurudwar
5	6	Yashraj	35	8766540987	M	Autonagar
6	7	Anjali	42	9878987654	F	Yendada
7	8	Gayatri	45	8987965432	F	Mindhi
8	9	Prakash	50	9876565432	M	Jug jnctn
9	10	Thapesh	54	8769546372	M	Adda road
10	11	Kalavathi	34	9874321892	F	Agnampudi
11	12	Khushi	19	8987654356	F	Lankelapalem
12	13	Riya	44	9875567493	F	Jharkhand
13	14	Rithika	56	9876475352	F	Jaipur
14	15	Priyanka	67	9876975436	F	Vijaywada
15	16	Satyam	70	9878965432	M	Vizinagaram
16	17	Shasi	68	6768435374	M	Gujarat
17	18	Hari	78	9456832175	F	Mumbai
18	19	Piyush	20	9876543435	M	Chennai
19	20	Dipak	79	9765432114	M	Kochi
20	21	Guru	80	9876543214	M	Kharakpur
21	22	Giri	56	9675435775	M	Raipur
22	23	Giridhar	60	9456231728	M	Goa

	Sl.No	Name	Age	Phone no.	Gender	Address
0	1	Manasa	18	8765433215	F	Gajuwaka
1	2	Priya	20	9876543211	F	Vadlapudi
2	3	Raju	24	9807654787	M	Srinagar
3	4	Ashu	26	8987654678	F	Birla Jctn
4	5	Ramesh	30	8765442391	M	Gurudwar
5	6	Yashraj	35	8766540987	M	Autonagar
6	7	Anjali	42	9878987654	F	Yendada
7	8	Gayatri	45	8987965432	F	Mindhi
8	9	Prakash	50	9876565432	M	Jug jnctn
9	10	Thapesh	54	8769546372	M	Adda road
10	11	Kalavathi	34	9874321892	F	Agnampudi
11	12	Khushi	19	8987654356	F	Lankelapalem
12	13	Riya	44	9875567493	F	Jharkhand
13	14	Rithika	56	9876475352	F	Jaipur
14	15	Priyanka	67	9876975436	F	Vijaywada
15	16	Satyam	70	9878965432	M	Vizinagaram
16	17	Shasi	68	6768435374	M	Gujarat
17	18	Hari	78	9456832175	F	Mumbai
18	19	Piyush	20	9876543435	M	Chennai
19	20	Dipak	79	9765432114	M	Kochi
20	21	Guru	80	9876543214	M	Kharakpur
21	22	Giri	56	9675435775	M	Raipur
22	23	Giridhar	60	9456231728	M	Goa

```
In [6]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.to_string())
de = df.drop_duplicates(subset="Name",keep="last")
print(de)
```

	Sl.No	Name	Age	Phone no.	Gender	Address
0	1	Manasa	18	8765433215	F	Gajuwaka
1	2	Priya	20	9876543211	F	Vadlapudi
2	3	Raju	24	9807654787	M	Srinagar
3	4	Ashu	26	8987654678	F	Birla Jctn
4	5	Ramesh	30	8765442391	M	Gurudwar
5	6	Yashraj	35	8766540987	M	Autonagar
6	7	Anjali	42	9878987654	F	Yendada
7	8	Gayatri	45	8987965432	F	Mindhi
8	9	Prakash	50	9876565432	M	Jug jnctn
9	10	Thapesh	54	8769546372	M	Adda road
10	11	Kalavathi	34	9874321892	F	Agnampudi
11	12	Khushi	19	8987654356	F	Lankelapalem
12	13	Riya	44	9875567493	F	Jharkhand
13	14	Rithika	56	9876475352	F	Jaipur
14	15	Priyanka	67	9876975436	F	Vijaywada
15	16	Satyam	70	9878965432	M	Vizinagaram
16	17	Shasi	68	6768435374	M	Gujarat
17	18	Hari	78	9456832175	F	Mumbai
18	19	Piyush	20	9876543435	M	Chennai
19	20	Dipak	79	9765432114	M	Kochi
20	21	Guru	80	9876543214	M	Kharakpur
21	22	Giri	56	9675435775	M	Raipur
22	23	Giridhar	60	9456231728	M	Goa

	Sl.No	Name	Age	Phone no.	Gender	Address
0	1	Manasa	18	8765433215	F	Gajuwaka
1	2	Priya	20	9876543211	F	Vadlapudi
2	3	Raju	24	9807654787	M	Srinagar
3	4	Ashu	26	8987654678	F	Birla Jctn
4	5	Ramesh	30	8765442391	M	Gurudwar
5	6	Yashraj	35	8766540987	M	Autonagar
6	7	Anjali	42	9878987654	F	Yendada
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8	9	Prakash	50	9876565432	M	Jug jnctn
9	10	Thapesh	54	8769546372	M	Adda road
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11	12	Khushi	19	8987654356	F	Lankelapalem
12	13	Riya	44	9875567493	F	Jharkhand
13	14	Rithika	56	9876475352	F	Jaipur
14	15	Priyanka	67	9876975436	F	Vijaywada
15	16	Satyam	70	9878965432	M	Vizinagaram
16	17	Shasi	68	6768435374	M	Gujarat
17	18	Hari	78	9456832175	F	Mumbai
18	19	Piyush	20	9876543435	M	Chennai
19	20	Dipak	79	9765432114	M	Kochi
20	21	Guru	80	9876543214	M	Kharakpur
21	22	Giri	56	9675435775	M	Raipur
22	23	Giridhar	60	9456231728	M	Goa


```
In [12]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.to_string())
de = df.drop_duplicates(inplace=False)
print(de)
```

	Sl.No	Name	Age	Phone no.	Gender	Address
0	1	Manasa	18	8765433215	F	Gajuwaka
1	2	Priya	20	9876543211	F	Vadlapudi
2	3	Raju	24	9807654787	M	Srinagar
3	4	Ashu	26	8987654678	F	Birla Jctn
4	5	Ramesh	30	8765442391	M	Gurudwar
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6	7	Anjali	42	9878987654	F	Yendada
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8	9	Prakash	50	9876565432	M	Jug jnctn
9	10	Thapesh	54	8769546372	M	Adda road
10	11	Kalavathi	34	9874321892	F	Agnampudi
11	12	Khushi	19	8987654356	F	Lankelapalem
12	13	Riya	44	9875567493	F	Jharkhand
13	14	Rithika	56	9876475352	F	Jaipur
14	15	Priyanka	67	9876975436	F	Vijaywada
15	16	Satyam	70	9878965432	M	Vizinagaram
16	17	Shasi	68	6768435374	M	Gujarat
17	18	Hari	78	9456832175	F	Mumbai
18	19	Piyush	20	9876543435	M	Chennai
19	20	Dipak	79	9765432114	M	Kochi
20	21	Guru	80	9876543214	M	Kharakpur
21	22	Giri	56	9675435775	M	Raipur
22	23	Giridhar	60	9456231728	M	Goa

	Sl.No	Name	Age	Phone no.	Gender	Address
0	1	Manasa	18	8765433215	F	Gajuwaka
1	2	Priya	20	9876543211	F	Vadlapudi
2	3	Raju	24	9807654787	M	Srinagar
3	4	Ashu	26	8987654678	F	Birla Jctn
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6	7	Anjali	42	9878987654	F	Yendada
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15	16	Satyam	70	9878965432	M	Vizinagaram
16	17	Shasi	68	6768435374	M	Gujarat
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18	19	Piyush	20	9876543435	M	Chennai
19	20	Dipak	79	9765432114	M	Kochi
20	21	Guru	80	9876543214	M	Kharakpur
21	22	Giri	56	9675435775	M	Raipur
22	23	Giridhar	60	9456231728	M	Goa

```
In [7]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
df.aggreate({"Age":['min','max']})

print(df.to_string())
```

	Sl.No	Name	Age	Phone no.	Gender	Address	Having PP	Not PP	Nat
0	1	Manasa	18	8765433215	F	Gajuwaka	N	Y	
1	2	Priya	20	9876543211	F	Vadlapudi	Y	N	
2	3	Raju	24	9807654787	M	Srinagar	Y	N	
3	4	Ashu	26	8987654678	F	Birla Jctn	N	Y	
4	5	Ramesh	30	8765442391	M	Gurudwar	Y	N	
5	6	Yashraj	35	8766540987	M	Autonagar	N	Y	
6	7	Anjali	42	9878987654	F	Yendada	Y	N	
7	8	Gayatri	45	8987965432	F	Mindhi	N	Y	
8	9	Prakash	50	9876565432	M	Jug jnctn	N	Y	
9	10	Thapesh	54	8769546372	M	Adda road	N	Y	
10	11	Kalavathi	34	9874321892	F	Agnampudi	Y	N	
11	12	Khushi	19	8987654356	F	Lankelapalem	Y	N	
12	13	Riya	44	9875567493	F	Jharkhand	N	Y	
13	14	Rithika	56	9876475352	F	Jaipur	N	Y	
14	15	Priyanka	67	9876975436	F	Vijaywada	Y	N	
15	16	Satyam	70	9878965432	M	Vizinagaram	N	Y	
16	17	Shasi	68	6768435374	M	Gujarat	Y	N	
17	18	Hari	78	9456832175	F	Mumbai	N	Y	
18	19	Piyush	20	9876543435	M	Chennai	Y	N	
19	20	Dipak	79	9765432114	M	Kochi	N	Y	
20	21	Guru	80	9876543214	M	Kharakpur	N	Y	
21	22	Giri	56	9675435775	M	Raipur	N	Y	
22	23	Giridhar	60	9456231728	M	Goa	Y	N	

```
In [8]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
df.aggregate({"Phone no.": ['min', 'max']})

print(df.to_string())
```

	Sl.No	Name	Age	Phone no.	Gender	Address	Having PP	Not PP	Nat
0	1	Manasa	18	8765433215	F	Gajuwaka	N	Y	
1	2	Priya	20	9876543211	F	Vadlapudi	Y	N	
2	3	Raju	24	9807654787	M	Srinagar	Y	N	
3	4	Ashu	26	8987654678	F	Birla Jctn	N	Y	
4	5	Ramesh	30	8765442391	M	Gurudwar	Y	N	
5	6	Yashraj	35	8766540987	M	Autonagar	N	Y	
6	7	Anjali	42	9878987654	F	Yendada	Y	N	
7	8	Gayatri	45	8987965432	F	Mindhi	N	Y	
8	9	Prakash	50	9876565432	M	Jug jnctn	N	Y	
9	10	Thapesh	54	8769546372	M	Adda road	N	Y	
10	11	Kalavathi	34	9874321892	F	Agnampudi	Y	N	
11	12	Khushi	19	8987654356	F	Lankelapalem	Y	N	
12	13	Riya	44	9875567493	F	Jharkhand	N	Y	
13	14	Rithika	56	9876475352	F	Jaipur	N	Y	
14	15	Priyanka	67	9876975436	F	Vijaywada	Y	N	
15	16	Satyam	70	9878965432	M	Vizinagaram	N	Y	
16	17	Shasi	68	6768435374	M	Gujarat	Y	N	
17	18	Hari	78	9456832175	F	Mumbai	N	Y	
18	19	Piyush	20	9876543435	M	Chennai	Y	N	
19	20	Dipak	79	9765432114	M	Kochi	N	Y	
20	21	Guru	80	9876543214	M	Kharakpur	N	Y	
21	22	Giri	56	9675435775	M	Raipur	N	Y	
22	23	Giridhar	60	9456231728	M	Goa	Y	N	

```
In [15]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.aggreate({"Age": ['min', 'max']}))
```

```
      Age
min    18
max    80
```

```
In [14]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.aggreate({"Phone no.": ['min', 'max']}))
```

```
      Phone no.
min  6768435374
max  9878987654
```

```
In [16]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.aggreate({"Age": ['sum']}))
```

```
      Age
sum  1075
```

```
In [17]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.aggreate({"Age": ['mean']}))
```

```
      Age
mean  46.73913
```

```
In [18]: import pandas as pd
df = pd.read_csv('D:\\Address, Passport.csv')
print(df.aggreate({"Age": ['mean']}))
print(df.aggreate({"Sl.No": ['max']}))
```

```
      Age
mean  46.73913
      Sl.No
max      23
```



```
In [24]: import pandas as pd
a = df.groupby(by='Address')
a.first()
```

Out[24]:

	SI.No	Name	Age	Phone no.	Gender	Having PP	Not PP	Nationality
Address								
Adda road	10	Thapesh	54	8769546372	M	N	Y	Indian
Agnampudi	11	Kalavathi	34	9874321892	F	Y	N	Indian
Autonagar	6	Yashraj	35	8766540987	M	N	Y	Indian
Birla Jctn	4	Ashu	26	8987654678	F	N	Y	Indian
Chennai	19	Piyush	20	9876543435	M	Y	N	Indian
Gajuwaka	1	Manasa	18	8765433215	F	N	Y	Indian
Goa	23	Giridhar	60	9456231728	M	Y	N	Indian
Gujarat	17	Shasi	68	6768435374	M	Y	N	Indian
Gurudwar	5	Ramesh	30	8765442391	M	Y	N	Indian
Jaipur	14	Rithika	56	9876475352	F	N	Y	Indian
Jharkhand	13	Riya	44	9875567493	F	N	Y	Indian
Jug jctn	9	Prakash	50	9876565432	M	N	Y	Indian
Kharakpur	21	Guru	80	9876543214	M	N	Y	Indian
Kochi	20	Dipak	79	9765432114	M	N	Y	Indian
Lankelapalem	12	Khushi	19	8987654356	F	Y	N	Indian
Mindhi	8	Gayatri	45	8987965432	F	N	Y	Indian
Mumbai	18	Hari	78	9456832175	F	N	Y	Indian
Raipur	22	Giri	56	9675435775	M	N	Y	Indian
Srinagar	3	Raju	24	9807654787	M	Y	N	Indian
Vadlapudi	2	Priya	20	9876543211	F	Y	N	Indian
Vijaywada	15	Priyanka	67	9876975436	F	Y	N	Indian
Vizinagaram	16	Satyam	70	9878965432	M	N	Y	Indian
Yendada	7	Anjali	42	9878987654	F	Y	N	Indian

```
In [26]: import pandas as pd
a = df.groupby(by=['Address', 'Name'])
a.first()
```

Out[26]:

		Sl.No	Age	Phone no.	Gender	Having PP	Not PP	Nationality
Address	Name							
Adda road	Thapesh	10	54	8769546372	M	N	Y	Indian
Agnampudi	Kalavathi	11	34	9874321892	F	Y	N	Indian
Autonagar	Yashraj	6	35	8766540987	M	N	Y	Indian
Birla Jctn	Ashu	4	26	8987654678	F	N	Y	Indian
Chennai	Piyush	19	20	9876543435	M	Y	N	Indian
Gajuwaka	Manasa	1	18	8765433215	F	N	Y	Indian
Goa	Giridhar	23	60	9456231728	M	Y	N	Indian
Gujarat	Shasi	17	68	6768435374	M	Y	N	Indian
Gurudwar	Ramesh	5	30	8765442391	M	Y	N	Indian
Jaipur	Rithika	14	56	9876475352	F	N	Y	Indian
Jharkhand	Riya	13	44	9875567493	F	N	Y	Indian
Jug jnctn	Prakash	9	50	9876565432	M	N	Y	Indian
Kharakpur	Guru	21	80	9876543214	M	N	Y	Indian
Kochi	Dipak	20	79	9765432114	M	N	Y	Indian
Lankelapalem	Khushi	12	19	8987654356	F	Y	N	Indian
Mindhi	Gayatri	8	45	8987965432	F	N	Y	Indian
Mumbai	Hari	18	78	9456832175	F	N	Y	Indian
Raipur	Giri	22	56	9675435775	M	N	Y	Indian
Srinagar	Raju	3	24	9807654787	M	Y	N	Indian
Vadlapudi	Priya	2	20	9876543211	F	Y	N	Indian
Vijaywada	Priyanka	15	67	9876975436	F	Y	N	Indian
Vizinagaram	Satyam	16	70	9878965432	M	N	Y	Indian
Yendada	Anjali	7	42	9878987654	F	Y	N	Indian

```
In [27]: import pandas as pd
a = df.groupby(by=['Address', 'Name'])
print(type(a))
print(pd.DataFrame(a))
```

```
<class 'pandas.core.groupby.generic.DataFrameGroupBy'>
```

```
0
0      (Adda road, Thapesh)      Sl.No      Name      Age      Phone no.      Gender      A...
1      (Agnampudi, Kalavathi)    Sl.No      Name      Age      Phone no.      Gender      ...
2      (Autonagar, Yashraj)      Sl.No      Name      Age      Phone no.      Gender      A...
3      (Birla Jctn, Ashu)        Sl.No      Name      Age      Phone no.      Gender      Add...
4      (Chennai, Piyush)         Sl.No      Name      Age      Phone no.      Gender      Add...
5      (Gajuwaka, Manasa)        Sl.No      Name      Age      Phone no.      Gender      Add...
6      (Goa, Giridhar)           Sl.No      Name      Age      Phone no.      Gender      Ad...
7      (Gujarat, Shasi)          Sl.No      Name      Age      Phone no.      Gender      Addr...
8      (Gurudwar, Ramesh)        Sl.No      Name      Age      Phone no.      Gender      Add...
9      (Jaipur, Rithika)         Sl.No      Name      Age      Phone no.      Gender      Add...
10     (Jharkhand, Riya)         Sl.No      Name      Age      Phone no.      Gender      Add...
11     (Jug jnctn, Prakash)      Sl.No      Name      Age      Phone no.      Gender      A...
12     (Kharakpur, Guru)         Sl.No      Name      Age      Phone no.      Gender      Add...
13     (Kochi, Dipak)            Sl.No      Name      Age      Phone no.      Gender      Addre...
14     (Lankelapalem, Khushi)    Sl.No      Name      Age      Phone no.      Gender      ...
15     (Mindhi, Gayatri)         Sl.No      Name      Age      Phone no.      Gender      Addr...
16     (Mumbai, Hari)            Sl.No      Name      Age      Phone no.      Gender      Addres...
17     (Raipur, Giri)            Sl.No      Name      Age      Phone no.      Gender      Addres...
18     (Srinagar, Raju)          Sl.No      Name      Age      Phone no.      Gender      Addre...
19     (Vadlapudi, Priya)        Sl.No      Name      Age      Phone no.      Gender      Add...
20     (Vijaywada, Priyanka)      Sl.No      Name      Age      Phone no.      Gender      ...
21     (Vizinagaram, Satyam)     Sl.No      Name      Age      Phone no.      Gender      ...
22     (Yendada, Anjali)         Sl.No      Name      Age      Phone no.      Gender      Addr...
```

```
In [ ]:
```