In [2]:

```
import pandas as pd
import numpy as np
```

In [4]:

Out[4]:

	X	у	Z	р
а	0	1	2	3
b	4	5	6	7
С	8	9	10	11
d	12	13	14	15

In [5]:

```
data.drop(["d"])
```

Out[5]:

	X	У	Z	р
а	0	1	2	3
b	4	5	6	7
c	8	9	10	11

In [6]:

stu=pd.DataFrame({"names":["aanya","aaryan","neha"],"rollno":[544,545,546],"sections":["B",
stu

Out[6]:

	names	rollno	sections
0	aanya	544	В
1	aaryan	545	С
2	neha	546	Α

In [8]:

```
clg=pd.DataFrame({"branchess":["cse","ece","eee"],"sections":["A","B","C"],"clgname":["VEC"
clg
```

Out[8]:

	branchess	sections	clgname
0	cse	Α	VEC
1	ece	В	VCE
2	eee	С	MLR

In [9]:

```
pd.concat([stu,clg],axis=1)
```

Out[9]:

	names	rollno	sections	branchess	sections	clgname
0	aanya	544	В	cse	Α	VEC
1	aaryan	545	С	ece	В	VCE
2	neha	546	Α	eee	С	MLR

In [10]:

```
p=pd.merge(stu,clg,on="sections")
p
```

Out[10]:

	names	rollno	sections	branchess	clgname
0	aanya	544	В	ece	VCE
1	aaryan	545	С	eee	MLR
2	neha	546	Α	cse	VEC

In [11]:

stu

Out[11]:

	names	rollno	sections
0	aanya	544	В
1	aaryan	545	С
2	neha	546	Α

```
In [12]:
```

```
clg.head(2)
```

Out[12]:

	branchess	sections	clgname
0	cse	А	VEC
1	ece	В	VCE

In [13]:

clg.tail(1)

Out[13]:

	branchess	sections	clgname
2	eee	С	MLR

In [14]:

clg.describe()

Out[14]:

	branchess	sections	clgname
count	3	3	3
unique	3	3	3
top	ece	Α	VCE
frea	1	1	1

In [15]:

pd.unique(stu.names)

Out[15]:

array(['aanya', 'aaryan', 'neha'], dtype=object)

```
In [16]:
```

```
pd.isna(stu)
```

Out[16]:

	names	rollno	sections
0	False	False	False
1	False	False	False
2	False	False	False

In [17]:

```
stu=pd.DataFrame({"names":["aanya","aaryan",np.NaN,],"rollno":[544,np.NaN,546],"sections":[
stu
```

Out[17]:

	names	rollno	sections
0	aanya	544.0	В
1	aaryan	NaN	С
2	NaN	546.0	Α

In [18]:

```
pd.isna(stu)
```

Out[18]:

	names	rollno	sections
0	False	False	False
1	False	True	False
2	True	False	False

In [19]:

```
df={"sname":["aanya","aaryan","neha","vaibhav"],"age":[3,10,12,15],"id":[7,3,6,5]}
p=pd.DataFrame(df)
p
```

Out[19]:

	sname	age	id
0	aanya	3	7
1	aaryan	10	3
2	neha	12	6
3	vaibhav	15	5

```
In [20]:
```

```
bins=[0,5,10,15]
```

In [22]:

```
class_names=["playschool","preprimary","primary"]
```

In [23]:

```
p["age_group"]=pd.cut(p.age,bins,labels=class_names)
p
```

Out[23]:

	sname	age	id	age_group
0	aanya	3	7	playschool
1	aaryan	10	3	preprimary
2	neha	12	6	primary
3	vaibhav	15	5	primary

In []: