

```
# Column Indexing
import pandas as pd
data=[{'Name':'Anurag','Roll_No':109,'Age':20},{ 'Name':'Sai','Roll_No':85}]
df1=pd.DataFrame(data,index=['1','2'],columns=['Name','Roll_No'])
df2=pd.DataFrame(data,index=['1','2'],columns=['Name','Age'])
print(df1)
print(df2)
```

	Name	Roll_No
1	Anurag	109
2	Sai	85

	Name	Age
1	Anurag	20.0
2	Sai	NaN

```
import pandas as pd
d = {'Name' : pd.Series(['Anurag','sai','Pratik'],index=['a','b','c']),
      'Roll':pd.Series([59,19,55,61],index=['a','b','c','d'])}
df=pd.DataFrame(d)
print(df)
```

	Name	Roll
a	Anurag	59
b	sai	19
c	Pratik	55
d	NaN	61

```
import pandas as pd
d = {'roll' : pd.Series([59,55,19],index=['a','b','c']),
      'no.':pd.Series([59,55,19,57],index=['a','b','c','d'])}
df=pd.DataFrame(d)
print(df['roll'])
```

a	59.0
b	55.0
c	19.0

```

d      NaN
Name: roll, dtype: float64

import pandas as pd
d = {'Name' : pd.Series(['Anurag','sai','Pratik'],index=['a','b','c']),
     'Roll':pd.Series([59,19,55,61],index=['a','b','c','d'])}
df=pd.DataFrame(d)

#Adding a new column to an existing DataFrame object withcolumn label by passing new series

print("Adding a new column by passing as Series")
df['ID']=pd.Series([23,20,23],index=['a','b','c'])
print(df)

print("Adding a new column using the existing columns in DataFrame:")
df['RID']=df['Roll']+df['ID']

print(df)

```

Adding a new column by passing as Series

	Name	Roll	ID
a	Anurag	59	23.0
b	sai	19	20.0
c	Pratik	55	23.0
d	NaN	61	NaN

Adding a new column using the existing columns in DataFrame:

	Name	Roll	ID	RID
a	Anurag	59	23.0	82.0
b	sai	19	20.0	39.0
c	Pratik	55	23.0	78.0
d	NaN	61	NaN	NaN

```

import pandas as pd
d = {'Name' : pd.Series(['Anurag','sai','Pratik'],index=['a','b','c']),
     'Roll':pd.Series([59,19,55,61],index=['a','b','c','d'])}
df=pd.DataFrame(d)
print(df[0:3])

```

	Name	Roll
a	Anurag	59
b	sai	19
c	Pratik	55

```
import pandas as pd
df = pd.DataFrame([[ 'Pratik',20],[ 'Yuvaraj',50]], columns = [ 'N','R'])
df2=pd.DataFrame([[ 'varun',21],[ 'Mrunmayee',20]], columns = [ 'N','R'])
df=df.append(df2)
print(df)
```

	N	R
0	Pratik	20
1	Yuvaraj	50
0	varun	21
1	Mrunmayee	20

```
import pandas as pd
df = pd.DataFrame([[ 'Pratik',20],[ 'Yuvaraj',50]], columns = [ 'N','R'])
df2=pd.DataFrame([[ 'varun',21],[ 'Mrunmayee',20]], columns = [ 'N','R'])
df=df.append(df2)
df=df.drop(0)
print(df)
```

	N	R
1	Yuvaraj	50
1	Mrunmayee	20