```
#import the pandas library and aliasing as pd
import pandas as pd
df=pd.DataFrame()
print(df)

     Empty DataFrame
     Columns: []
     Index: []


import pandas as pd
data=[19,59,55,57]
df=pd.DataFrame(data)
print(df)

         0
     0  19
     1  59
     2  55
     3  57


import pandas as pd
data = [['Anurag',20],['Yuva',20],['Praju',19]]
df=pd.DataFrame(data,columns=['Name','Age'])
print(df)

         Name  Age
     0  Anurag   20
     1    Yuva   20
     2   Praju   19


import pandas as pd
data = [['Anurag',20],['Yuva',20],['Praju',19]]
df=pd.DataFrame(data,columns=['Name','Age'],dtype=float)
print(df)

         Name   Age
     0  Anurag  20.0
     1    Yuva  20.0
     2   Praju  19.0
     /usr/local/lib/python3.7/dist-packages/IPython/core/interactiveshell.py:3326: FutureW
       exec(code_obj, self.user_global_ns, self.user_ns)
```

◀   ▶

```
import pandas as pd
data={'Name':['Anurag','Prasad'],'Age':[20,19]}
df=pd.DataFrame(data)
print(df)

         Name  Age
     0  Anurag   20
     1  Prasad   19
```

```python
import pandas as pd
data=[{'Name':'Anurag','Roll_No':109,'Age':20},{'Name':'Sai','Roll_No':85}]
df=pd.DataFrame(data)
print(df)
```

```
        Name  Roll_No   Age
   0  Anurag      109  20.0
   1     Sai       85   NaN
```

```python
import pandas as pd
data=[{'Name':'Anurag','Roll_No':109,'Age':20},{'Name':'Sai','Roll_No':85}]
df=pd.DataFrame(data,index=['1','2'])
print(df)
```

```
        Name  Roll_No   Age
   1  Anurag      109  20.0
   2     Sai       85   NaN
```

```python
# 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
```

```python
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
```

```python
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'])}
```

```python
df=pd.DataFrame(d)
print(df['roll'])
```

```
    a    59.0
    b    55.0
    c    19.0
    d     NaN
    Name: roll  dtype: float64
```

```python
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 serie

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
```

```python
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
```

```python
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
```