

Assignment 5

```
[1] import pandas as pd
df=pd.DataFrame()
print(df)
```

```
Empty DataFrame
Columns: []
Index: []
```

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

```
   0
0  19
1  59
2  55
3  57
```

```
[6] import pandas as pd
data = [['Aarya',20],['Athang',20],['Rishabh',19]]
df=pd.DataFrame(data,columns=['Name','Age'])
print(df)
```

```
   Name  Age
0  Aarya  20
1  Athang  20
2  Rishabh 19
```

```
[5] import pandas as pd
data = [['Aarya',20],['Athang',20],['Rishabh',19]]
df=pd.DataFrame(data,columns=['Name','Age'],dtype=float)
print(df)
```

```
   Name  Age
0  Aarya 20.0
1  Athang 20.0
2  Rishabh 19.0
```

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

```
   Name  Age
0  Aarya  20
1  Rishabh 19
```

```
[8] import pandas as pd
data=[{'Name':'Aarya','Roll_No':3,'Age':20},{ 'Name':'Athang','Roll_No':5}]
df=pd.DataFrame(data)
print(df)
```

	Name	Roll_No	Age
0	Aarya	3	20.0
1	Athang	5	NaN

```
[9] import pandas as pd
data=[{'Name':'Aarya','Roll_No':3,'Age':20},{ 'Name':'Athang','Roll_No':5}]
df=pd.DataFrame(data,index=['1','2'])
print(df)
```

	Name	Roll_No	Age
1	Aarya	3	20.0
2	Athang	5	NaN

```
[11] import pandas as pd
data=[{'Name':'Aarya','Roll_No':3,'Age':20},{ 'Name':'Athang','Roll_No':5}]
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	Aarya	3
2	Athang	5

	Name	Age
1	Aarya	20.0
2	Athang	NaN

```
[12] import pandas as pd
d = {'Name' : pd.Series(['Aarya','Athang','Rishabh'],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	Aarya	59
b	Athang	19
c	Rishabh	55
d	NaN	61

```
[13] 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

```
[14] import pandas as pd
d = {'Name' : pd.Series(['Aarya','Athang','Rishabh'],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	Aarya	59
b	Athang	19
c	Rishabh	55