#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

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

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

# 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 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

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

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