

```
In [13]: #1
import pandas as pd
names = ['santy', 'pournami', 'athulya']
x = pd.Series(names)
print(names)
print(x)
```

```
['santy', 'pournami', 'athulya']
0      santy
1    pournami
2     athulya
dtype: object
```

```
In [15]: #2
import pandas as np
sr = pd.date_range('2021-05-01', '2021-05-12', freq = 'D')
x=pd.Series(sr)
#print(x)
print(x.to_string(index=False))
```

```
2021-05-01
2021-05-02
2021-05-03
2021-05-04
2021-05-05
2021-05-06
2021-05-07
2021-05-08
2021-05-09
2021-05-10
2021-05-11
2021-05-12
```

```
In [19]: #3
import pandas as pd

d = {
    'Name' : ['santy', 'pournami', 'athulya'],
    'Age' : [23, 24, 22],
    'Course': ['MCA', 'MCA', 'MCA'],
}
df = pd.DataFrame(d)
print(df.to_string(index=False))
```

```
   Name  Age  Course
santy   23    MCA
pournami 24    MCA
athulya  22    MCA
```

```
In [25]: #4

import pandas as pd
a=[[11,12],[14,15]]
b=pd.DataFrame(a)
print(b)
```

```
   0  1
0  11 12
1  14 15
```

```
In [1]: #5

import pandas as pd
```

```
df = pd.read_csv('5.csv')

print(df.to_string())
```

	name	mark
0	santy	40
1	pournami	44
2	athulya	46

In [32]: #6

```
import pandas as pd

df = pd.DataFrame({'Name': ['santy', 'pournami', 'athulya', 'aish', 'rahul', 'ann'],
                  'Age': [23, 24, 22, 22, 21, 13],
                  'Rank': [0, 1, 2, 3, 4, 5]})

print(df.to_string())
print('SORTED DATAFRAME BY NAME ')
df = df.sort_values(by=['Name'], ascending=[True])
print(df.to_string())

print('SORTED DATAFRAME BY AGE ')
df = df.sort_values(by=['Age'], ascending=[True])
print(df.to_string())
```

	Name	Age	Rank
0	santy	23	0
1	pournami	24	1
2	athulya	22	2
3	aish	22	3
4	rahul	21	4
5	ann	13	5

SORTED DATAFRAME BY NAME

	Name	Age	Rank
3	aish	22	3
5	ann	13	5
2	athulya	22	2
1	pournami	24	1
4	rahul	21	4
0	santy	23	0

SORTED DATAFRAME BY AGE

	Name	Age	Rank
5	ann	13	5
4	rahul	21	4
3	aish	22	3
2	athulya	22	2
0	santy	23	0
1	pournami	24	1

In [36]: #7

```
import pandas as pd

data = {'Name': ['santy', 'pournami', 'athulya', 'aish', 'rahul', 'ann'],
        'Age': [23, 24, 22, 22, 21, 13],
        'Rank': [0, 1, 2, 3, 4, 5],}

index = ['a1', 'b1', 'c1', 'd1', 'e1', 'f1']

df = pd.DataFrame(data, index)
print(df.to_string())
df.reset_index(inplace = True, drop = True)
print(df.to_string())
```

	Name	Age	Rank
a1	santy	23	0
b1	pournami	24	1
c1	athulya	22	2
d1	aish	22	3
e1	rahul	21	4
f1	ann	13	5

  

	Name	Age	Rank
0	santy	23	0
1	pournami	24	1
2	athulya	22	2
3	aish	22	3
4	rahul	21	4
5	ann	13	5

In [42]: #8

```
import pandas as pd
df = pd.DataFrame({'Name': ['santy', 'pournami', 'athulya', 'aish', 'rahul', 'ann'],
                   'Age': [23, 24, 22, 22, 21, 13],
                   'Rank': [0, 1, 2, 3, 4, 5]})

print(df[:2])
```

	Name	Age	Rank
0	santy	23	0
1	pournami	24	1

In [47]: #9

```
import pandas as pd
df = pd.DataFrame({'Name': ['santy', 'pournami', 'athulya', 'aish', 'rahul', 'ann'],
                   'Occupation': ['teacher', 'doctor', 'engineer', 'teacher', 'doctor', 'vect'],
                   'Salary': [12000, 35000, 50000, 14000, 40000, 30000]})

df = pd.DataFrame(df)
print(df)
avg = df.groupby('Occupation')['Salary'].mean()
print(" Average salary per occupation : ")
print(avg)
```

	Name	Occupation	Salary
0	santy	teacher	12000
1	pournami	doctor	35000
2	athulya	engineer	50000
3	aish	teacher	14000
4	rahul	doctor	40000
5	ann	vect	30000

Average salary per occupation :

Occupation	
doctor	37500.0
engineer	50000.0
teacher	13000.0
vect	30000.0

Name: Salary, dtype: float64

In [53]: #10

```
import pandas as pd
import numpy as np

nums = {'Set_of_Numbers': [2, 3, np.nan, 7, 11, 13, np.nan, 19, 23, np.nan]}
df = pd.DataFrame(nums)
df = df.fillna(0)
print(df)
```

```

Set_of_Numbers
0      2.0
1      3.0
2      0.0
3      7.0
4     11.0
5     13.0
6      0.0
7     19.0
8     23.0
9      0.0

```

```

In [54]: #11
import pandas as pd

details = {
    'cname' : ['deloitte', 'IBM', 'UST', 'Accenture'],
    'profit' : [24, 25, 0, -27],
}

df = pd.DataFrame(details)

df.loc[df.profit <= 0, 'profit'] = False
df.loc[df.profit > 0, 'profit'] = True
print(df)

```

```

      cname profit
0  deloitte   True
1       IBM   True
2       UST  False
3  Accenture  False

```

```

In [56]: #12
import pandas as pd

details_1 = {
    'eid' : [1, 2, 3, 4],
    'ename' : ['ann', 'pournami', 'santy', 'athulya'],
    'stipend' : [123, 131, 23, 434],
}

details_2 = {
    'eid' : [1, 2, 3, 4],
    'designation' : ['manager', 'analyst', 'tester', 'CEO'],
}

df_1 = pd.DataFrame(details_1)
df_2 = pd.DataFrame(details_2)

dataframe = pd.merge(df_1, df_2, how = 'inner', on = 'eid')
print(dataframe)

```

```

      eid  ename  stipend designation
0      1    ann     123     manager
1      2  pournami    131     analyst
2      3    santy     23      tester
3      4  athulya    434         CEO

```

In [ ]:

In [ ]: