17-05-2023

In [1]:
```python
import pandas as pd
```

to create series

In [2]:
```python
s=pd.Series()
print(s)
```

```
Series([], dtype: float64)
```

<div style="background-color:#fdd">
C:\Users\admin\AppData\Local\Temp\ipykernel_3708\2242303654.py:1: FutureWarning: T
he default dtype for empty Series will be 'object' instead of 'float64' in a futur
e version. Specify a dtype explicitly to silence this warning.
  s=pd.Series()
</div>

create series with data

In [3]:
```python
s=pd.Series(data=[10,20,30])
s
```

Out[3]:
```
0    10
1    20
2    30
dtype: int64
```

In [4]:
```python
s=pd.Series([10,20,30,40])    # integer indexing
s
```

Out[4]:
```
0    10
1    20
2    30
3    40
dtype: int64
```

Create series with labelled indexing...........list to series

In [6]:
```python
s1=pd.Series([100,200,300],index=["a","b","c"])    #labelled indexing
s1
```

Out[6]:
```
a    100
b    200
c    300
dtype: int64
```

dict to series

In [15]:
```python
data={"a":100,"b":200,"c":300.3}
#s3=pd.Series(data,index=["aa","bb","cc"])    #this is invalid
s3=pd.Series(data)
s3
```

Out[15]:
```
a    100.0
b    200.0
c    300.3
dtype: float64
```

```
In [10]: data={"a":100,"b":200,"c":300.3}
         s2=pd.Series(data)
         s2
```

```
Out[10]: a    100.0
         b    200.0
         c    300.3
         dtype: float64
```

Dataframe

syntax= pandas.DataFrame(data,index,columns,dtype,copy)

Creating empty DataFrame

```
In [16]: df=pd.DataFrame()
         df
```

Out[16]: —

Creating dataframe using list

```
In [17]: data=[1,2,3,4,5]
         df=pd.DataFrame(data)
         df
```

Out[17]:

	0
0	1
1	2
2	3
3	4
4	5

creating dataframe using nested list

```
In [19]: data=[["i","ii","iii"],["a","b","c"],[1,2,3]]
         df=pd.DataFrame(data)
         df
```

Out[19]:

	0	1	2
0	i	ii	iii
1	a	b	c
2	1	2	3

```
In [20]: data=[["i","ii","iii"],["a","b","c"],[1,2,3]]
         df=pd.DataFrame(data,columns=["a","b","c"])
         df
```

Out[20]:

	a	b	c
0	i	ii	iii
1	a	b	c
2	1	2	3

create dataframe to dict

In [22]:
```python
data={"name":["Jay","Vijay","Mickey","Riya"],"Age":[16,30,22,36]}
df=pd.DataFrame(data)
df
```

Out[22]:

	name	Age
0	Jay	16
1	Vijay	30
2	Mickey	22
3	Riya	36

In [23]:
```python
data={"name":["Jay","Vijay","Mickey","Riya"],"Age":[16,30,22,36]}
df=pd.DataFrame(data,index=["Emp1","Emp2","Emp3","Emp4"])
df
```

Out[23]:

	name	Age
Emp1	Jay	16
Emp2	Vijay	30
Emp3	Mickey	22
Emp4	Riya	36

In [ ]: