In [1]:

```
# import lib

import numpy as np
import pandas as pd
```

In [ ]:

```
# Append()

# pandas append function is used to appnd rows
# of one date frame to another data frame at end and it will return
# new dataframe
```

In [ ]:

```
# syntax ==> Dataframe.append()
```

In [2]:

```
data1 = pd.DataFrame({
                        'Sno':[1,2,3,4,5],
                        'Name':['Harish','Shoeb','Venkat','Wahed','Yogesh']
})
data1
```

Out[2]:

	Sno	Name
0	1	Harish
1	2	Shoeb
2	3	Venkat
3	4	Wahed
4	5	Yogesh

In [3]:

```
data2 = pd.DataFrame({
                        'Sno':[6,7,8,9,10],
                        'Name':['Joy','Albert','Screw','Jack','Bolt']
})
data2
```

Out[3]:

	Sno	Name
0	6	Joy
1	7	Albert
2	8	Screw
3	9	Jack
4	10	Bolt

In [4]:

```
display(data1,data2)
```

	Sno	Name
0	1	Harish
1	2	Shoeb
2	3	Venkat
3	4	Wahed
4	5	Yogesh

	Sno	Name
0	6	Joy
1	7	Albert
2	8	Screw
3	9	Jack
4	10	Bolt

In [5]:

```
# append()

data1.append(data2)
```

Out[5]:

	Sno	Name
0	1	Harish
1	2	Shoeb
2	3	Venkat
3	4	Wahed
4	5	Yogesh
0	6	Joy
1	7	Albert
2	8	Screw
3	9	Jack
4	10	Bolt

In [ ]:

```
# pre defined methods of append()
# data1.append()

# Signature: data1.append(other, ignore_index=False, verify_integrity=False, sort=None)
```

In [6]:

```
# ignore_index=False

data1.append(data2,ignore_index=False)
```

Out[6]:

	Sno	Name
0	1	Harish
1	2	Shoeb
2	3	Venkat
3	4	Wahed
4	5	Yogesh
0	6	Joy
1	7	Albert
2	8	Screw
3	9	Jack
4	10	Bolt

In [7]:

```
data1.append(data2,ignore_index=True)
```

Out[7]:

	Sno	Name
0	1	Harish
1	2	Shoeb
2	3	Venkat
3	4	Wahed
4	5	Yogesh
5	6	Joy
6	7	Albert
7	8	Screw
8	9	Jack
9	10	Bolt

In [ ]:

```

```

In [8]:

```
# sort=None

data3 = pd.DataFrame({
                        'Sno':[1,2,3,4,5],
                        'Name':['Harish','Shoeb','Venkat','Wahed','Yogesh']
})
data3
```

Out[8]:

	Sno	Name
0	1	Harish
1	2	Shoeb
2	3	Venkat
3	4	Wahed
4	5	Yogesh

In [10]:

```
data4 = pd.DataFrame({
                        'Sno':[6,7,8,9,10],
                        'Friends':['Joy','Albert','Screw','Jack','Bolt']
})
data4
```

Out[10]:

	Sno	Friends
0	6	Joy
1	7	Albert
2	8	Screw
3	9	Jack
4	10	Bolt

In [11]:

```
data3.append(data4)
```

```
C:\Users\Mithun\Anaconda3\lib\site-packages\pandas\core\frame.py:6692: Futur
eWarning: Sorting because non-concatenation axis is not aligned. A future ve
rsion
of pandas will change to not sort by default.

To accept the future behavior, pass 'sort=False'.

To retain the current behavior and silence the warning, pass 'sort=True'.

  sort=sort)
```

Out[11]:

	Friends	Name	Sno
0	NaN	Harish	1
1	NaN	Shoeb	2
2	NaN	Venkat	3
3	NaN	Wahed	4
4	NaN	Yogesh	5
0	Joy	NaN	6
1	Albert	NaN	7
2	Screw	NaN	8
3	Jack	NaN	9
4	Bolt	NaN	10

In [12]:

```
data3.append(data4,sort=False)
```

Out[12]:

	Sno	Name	Friends
0	1	Harish	NaN
1	2	Shoeb	NaN
2	3	Venkat	NaN
3	4	Wahed	NaN
4	5	Yogesh	NaN
0	6	NaN	Joy
1	7	NaN	Albert
2	8	NaN	Screw
3	9	NaN	Jack
4	10	NaN	Bolt