```
In [1]:
    import pandas as pd
    import numpy as np
```

#### 1.Create any Series and print the output

## 2.Create any dataframe of 10x5 with few nan values and print the output

```
In [25]:
    a = pd.DataFrame({
        "A":[1,2,3,4,5,6,7,8,9,10],
        "B":[9,8,7,6,5,4,3,2,1,0],
        "C":[1,3,2,4,np.nan,10,7,5,8,3],
        "D":[45,67,np.nan,546,23,576,879,123,567,124],
        "E":[546,867,np.nan,np.nan,567,879,432,435,897,546]
    })
    a
```

```
Out[25]:
              A B
                      C
                            D
                                   Ε
                     1.0
                          45.0 546.0
                 8
                     3.0
                          67.0 867.0
              3 7
                     2.0
                          NaN
                                NaN
                     4.0 546.0
                 6
                                NaN
                          23.0
                5 NaN
                               567.0
                    10.0 576.0 879.0
                     7.0 879.0 432.0
                     5.0 123.0 435.0
                     8.0 567.0 897.0
          9 10 0
                     3.0 124.0 546.0
```

## 3. Display top 7 and last 6 rows and print the output

# 4. Fill with a constant value and print the output

```
In [26]: a.fillna(1)
Out[26]: A B C D E

O 1 9 1.0 45.0 546.0

1 2 8 3.0 67.0 867.0

2 3 7 2.0 1.0 1.0
```

```
        A
        B
        C
        D
        E

        3
        4
        6
        4.0
        546.0
        1.0

        4
        5
        5
        1.0
        23.0
        567.0

        5
        6
        4
        10.0
        576.0
        879.0

        6
        7
        3
        7.0
        879.0
        432.0

        7
        8
        2
        5.0
        123.0
        435.0

        8
        9
        1
        8.0
        567.0
        897.0
```

10 0

3.0 124.0 546.0

# 5.Drop the column with missing values and print the output

```
In [36]:
          b = pd.DataFrame({
               "A":[1,2,3,4,5,6,7,8,9,10],
               "B":[9,8,7,6,5,4,3,2,1,0],
               "C":[1,3,2,4,np.nan,10,7,5,8,3],
               "D":[45,67,np.nan,546,23,576,879,123,567,124],
               "E":[546,867,np.nan,np.nan,567,879,432,435,897,546]
          })
          b.dropna(axis=0)
Out[36]:
                     C
             A B
                           D
                                 Ε
                9
                    1.0
                        45.0 546.0
             2 8
                    3.0
                         67.0 867.0
             6 4 10.0 576.0 879.0
             7 3
                   7.0 879.0 432.0
                    5.0 123.0 435.0
                    8.0 567.0 897.0
```

### 6. Drop the row with missing values and print the output

	Α	В	C	D	
6	7	3	7.0	879.0	432.0
7	8	2	5.0	123.0	435.0
8	9	1	8.0	567.0	897.0

# 7.To check the presence of missing values in your dataframe



## 8.Use operators and check the condition and print the output

```
In [43]: b[b["A"]>=5]

Out[43]: A B C D E

4 5 5 NaN 23.0 567.0

5 6 4 10.0 576.0 879.0

6 7 3 7.0 879.0 432.0

7 8 2 5.0 123.0 435.0

8 9 1 8.0 567.0 897.0

9 10 0 3.0 124.0 546.0
```

# 9. Display your output using loc and iloc, row and column heading

```
In [59]:
           d = pd.DataFrame({
               "A":[1,2,3,4,5,6,7,8,9,10],
               "B":[9, "sree", 7, 6, 5, 4, 3, 2, 1, 0],
               "C":[1,3,2,4,np.nan,10,7,5,8,3],
               "D":[45,67,np.nan,546,23,576,879,123,567,124],
               "E": [546,867,np.nan,np.nan,567,879,432,435,897,546]
           })
          d.loc["A":"C"]
          d.columns
Out[59]: Index(['A', 'B', 'C', 'D', 'E'], dtype='object')
In [60]:
           d.index
Out[60]: RangeIndex(start=0, stop=10, step=1)
In [61]:
          d.iloc[0:4]
Out[61]:
                            D
                                  Ε
                          45.0 546.0
                  9 1.0
             2 sree 3.0
                          67.0 867.0
                  7 2.0
                         NaN
                               NaN
                  6 4.0 546.0
                               NaN
```

### 10. Display the statistical summary of data

```
In [63]:
           d.describe()
Out[63]:
                                   C
                                              D
                                                          Ε
           count 10.00000
                            9.000000
                                        9.000000
                                                   8.000000
           mean
                   5.50000
                            4.777778 327.777778 646.125000
                  3.02765
                            2.990726 315.163758 200.958018
             std
                   1.00000
                           1.000000
                                     23.000000 432.000000
            min
            25%
                   3.25000
                            3.000000
                                     67.000000 518.250000
            50%
                   5.50000
                            4.000000 124.000000 556.500000
            75%
                  7.75000
                            7.000000 567.000000 870.000000
```

	Α	С	D	E
In [ ]:				

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