ASSIGNMENT -DAY3

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

1.printing series

```
In [3]: a=pd.Series([1,2,3,4,5])
a
Out[3]: 0  1
```

1 2 2 3 3 4 4 5 dtype: int64

2.creating dataframe of 10*5

```
In [5]: a=pd.DataFrame(np.random.randn(10,5))
a
```

Out[5]:

	0	1	2	3	4
0	0.310896	-2.729624	0.023347	2.003032	0.268801
1	0.803039	1.449944	-0.287658	0.114633	0.669356
2	0.482701	1.645162	0.835453	-0.545293	-0.268292
3	0.264689	0.589819	-0.229511	-1.404624	-0.112069
4	-1.684771	0.449952	-1.095002	2.919310	0.233633
5	0.613585	-1.711131	0.836495	-0.098399	0.540936
6	1.349525	-2.332081	1.082465	0.836576	1.080600
7	0.321097	-0.822717	-3.454995	-0.720404	0.660481
8	1.449063	2.608233	3.382435	-0.158817	0.542734
9	-0.357426	0.210969	0.002661	-0.757349	0.358902

3. Displaying top 7 and last 6 rows from dataset

```
In [6]: a.head()
```

Out[6]:

	0	1	2	3	4
0	0.310896	-2.729624	0.023347	2.003032	0.268801
1	0.803039	1.449944	-0.287658	0.114633	0.669356
2	0.482701	1.645162	0.835453	-0.545293	-0.268292
3	0.264689	0.589819	-0.229511	-1.404624	-0.112069
4	-1.684771	0.449952	-1.095002	2.919310	0.233633

4 constant values

Out[7]:

```
        a
        b
        c

        0
        10.0
        30.0
        0.0

        1
        99.0
        5.0
        56.0

        2
        0.0
        69.0
        76.0

        3
        65.0
        0.0
        23.0
```

5.dropping the column with missing values

Out[11]:

```
a b0 10.0 30.01 99.0 5.0
```

6.Dropping the values with missing values

```
In [15]: df=pd.DataFrame(
    {'a':[10,99,np.nan,95],
    'b':[30,5,69,np.nan],
    'c':[np.nan,56,76,23]
    })
    df.dropna()
```

Out[15]:

```
a b c
1 99.0 5.0 56.0
```

7. Missing values in the dataframe

Out[16]:

	TIPST	secona	tnira
0	10.0	30.0	NaN
1	99.0	5.0	56.0
2	NaN	69.0	76.0
3	95.0	NaN	23.0

8. Displaying loc and iloc

```
In [17]: df.loc[0:2]
```

Out[17]:

	first	second	third
0	10.0	30.0	NaN
1	99.0	5.0	56.0
2	NaN	69.0	76.0

9.loc and iloc using operators

Out[18]:

```
        a
        b
        c

        0
        10.0
        30.0
        NaN

        1
        99.0
        5.0
        56.0

        3
        95.0
        NaN
        23.0
```

10. Displaying statical summary of data

Out[19]:

```
а
                                  С
count
       3.000000
                 3.000000
                            3.000000
mean 68.000000
                34.666667 51.666667
  std 50.269275 32.254199 26.764404
      10.000000
                 5.000000 23.000000
 min
 25%
      52.500000
                17.500000 39.500000
 50% 95.000000
                30.000000 56.000000
 75% 97.000000
                49.500000 66.000000
 max 99.000000 69.000000 76.000000
```

```
In [ ]:
```