Daily Assessment

```
In [1]:
```

```
import numpy as np
import pandas as pd
```

1. Create any Series and print the output

```
In [3]:
```

```
a=pd.Series([45,12,78,46,13,24])
a
```

Out[3]:

- 0 1 1 2 2 3 3 4
- dtype: int64

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

```
In [5]:
```

Out[5]:

	Α	В	С	D	Е
0	1	sara	11	2023-07-21	NaN
1	2	man	23	2023-07-22	NaN
2	3	tea	12	2023-07-23	NaN
3	4	karma	45	2023-07-24	NaN
4	5	tamil	23	2023-07-25	NaN
5	6	bot	67	2023-07-26	NaN
6	7	sale	12	2023-07-27	NaN
7	8	leave	45	2023-07-28	NaN
8	9	mention	67	2023-07-29	NaN
9	10	flash	34	2023-07-30	NaN

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

```
In [8]:
```

```
b.head(7)
```

Out[8]:

	A	В	С	D	Е
0	1	sara	11	2023-07-21	NaN
1	2	man	23	2023-07-22	NaN
2	3	tea	12	2023-07-23	NaN
3	4	karma	45	2023-07-24	NaN
4	5	tamil	23	2023-07-25	NaN
5	6	bot	67	2023-07-26	NaN
6	7	sale	12	2023-07-27	NaN

```
In [10]:
```

```
b.tail(6)
```

Out[10]:

	Α	В	С	D	Е
4	5	tamil	23	2023-07-25	NaN
5	6	bot	67	2023-07-26	NaN
6	7	sale	12	2023-07-27	NaN
7	8	leave	45	2023-07-28	NaN
8	9	mention	67	2023-07-29	NaN
9	10	flash	34	2023-07-30	NaN

4. Fill with a constant value and print the output

In [13]:

```
b.fillna(value=2)
```

Out[13]:

	Α	В	С	D	Е
0	1	sara	11	2023-07-21	2.0
1	2	man	23	2023-07-22	2.0
2	3	tea	12	2023-07-23	2.0
3	4	karma	45	2023-07-24	2.0
4	5	tamil	23	2023-07-25	2.0
5	6	bot	67	2023-07-26	2.0
6	7	sale	12	2023-07-27	2.0
7	8	leave	45	2023-07-28	2.0
8	9	mention	67	2023-07-29	2.0
9	10	flash	34	2023-07-30	2.0

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

```
In [14]:
```

```
b.dropna(axis=1,how='any')
```

Out[14]:

	Α	В	С	D
0	1	sara	11	2023-07-21
1	2	man	23	2023-07-22
2	3	tea	12	2023-07-23
3	4	karma	45	2023-07-24
4	5	tamil	23	2023-07-25
5	6	bot	67	2023-07-26
6	7	sale	12	2023-07-27
7	8	leave	45	2023-07-28
8	9	mention	67	2023-07-29
9	10	flash	34	2023-07-30

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

```
In [16]:
```

```
b.dropna()
```

Out[16]:

A B C D E

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

```
In [18]:
b.isna()
Out[18]:
                        Ε
     Α
          В
               С
                    D
  False False False
                      True
  False False False True
  False False False True
  False False False
                      True
  False False False
                      True
  False False False True
  False False False True
7 False False False
                      True
  False False False
  False False False
                      True
```

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

```
In [34]:
```

dtype: int64

```
c=pd.Series([12,34,56,65,78,73])
print(c[(c>30)&(c<70)])

1    34
2    56
3    65</pre>
```

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

```
In [19]:
b.iloc[0:3]
Out[19]:
```

```
        A
        B
        C
        D
        E

        0
        1
        sara
        11
        2023-07-21
        NaN

        1
        2
        man
        23
        2023-07-22
        NaN

        2
        3
        tea
        12
        2023-07-23
        NaN
```

```
In [20]:
b.loc['A':'C']
Out[20]:

A B C D E

In [21]:
b.loc[3:7]
Out[21]:
```

	Α	В	С	D	E
3	4	karma	45	2023-07-24	NaN
4	5	tamil	23	2023-07-25	NaN
5	6	bot	67	2023-07-26	NaN
6	7	sale	12	2023-07-27	NaN
7	8	leave	45	2023-07-28	NaN

10. Display the statistical summary of data

```
In [22]:
```

b.describe()

Out[22]:

	Α	С	E
count	10.00000	10.000000	0.0
mean	5.50000	33.900000	NaN
std	3.02765	21.496511	NaN
min	1.00000	11.000000	NaN
25%	3.25000	14.750000	NaN
50%	5.50000	28.500000	NaN
75%	7.75000	45.000000	NaN
max	10.00000	67.000000	NaN

In []: