

Time Series:

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

```
In [2]: pd.__version__
```

```
Out[2]: '1.4.3'
```

```
In [ ]: #!pip install pandas==1.4.3
```

```
In [ ]: # 06 may 2024  
# 06th may 2024  
# 06/05/2024
```

```
In [12]: dt = pd.to_datetime(["06 may 2024", "06th may 2024", "04/04/2024", "06-05-2024"])  
dt
```

```
Out[12]: DatetimeIndex(['2024-05-06', '2024-05-06', '2024-04-04', '2024-06-05'], dtype  
='datetime64[ns]', freq=None)
```

```
In [13]: ## UTC -- Format
```

```
"YY-MM-DD"
```

```
#India--
```

```
"dd-mm-yy"
```

```
Out[13]: 'dd-mm-yy'
```

```
In [14]: dt[2].month
```

```
Out[14]: 4
```

```
In [15]: dt[2].year
```

```
Out[15]: 2024
```

```
In [16]: dt[2].day
```

```
Out[16]: 4
```

```
In [18]: dt[2].hour
```

```
Out[18]: 0
```

```
In [33]: date1 = pd.Timestamp("05/06/2024")  
date1
```

```
Out[33]: Timestamp('2024-05-06 00:00:00')
```

```
In [34]: date1.week
```

```
Out[34]: 19
```

```
In [35]: date1.year
```

```
Out[35]: 2024
```

```
In [36]: date1.month
```

```
Out[36]: 5
```

```
In [37]: date1.minute
```

```
Out[37]: 0
```

```
In [38]: date1 + pd.Timedelta('+10 days')
```

```
Out[38]: Timestamp('2024-05-16 00:00:00')
```

```
In [40]: date1 + pd.Timedelta('- 100 days')
```

```
Out[40]: Timestamp('2024-01-27 00:00:00')
```

```
In [41]: date1 + pd.Timedelta('- 1 hour')
```

```
Out[41]: Timestamp('2024-05-05 23:00:00')
```

```
In [ ]: # Date range
```

```
In [53]: pd.date_range("04-15-2024", "05-06-2024")
```

```
Out[53]: DatetimeIndex(['2024-04-15', '2024-04-16', '2024-04-17', '2024-04-18',  
                        '2024-04-19', '2024-04-20', '2024-04-21', '2024-04-22',  
                        '2024-04-23', '2024-04-24', '2024-04-25', '2024-04-26',  
                        '2024-04-27', '2024-04-28', '2024-04-29', '2024-04-30',  
                        '2024-05-01', '2024-05-02', '2024-05-03', '2024-05-04',  
                        '2024-05-05', '2024-05-06'],  
                        dtype='datetime64[ns]', freq='D')
```

```
In [54]: pd.date_range("2024-05-01", "2024-05-06")
```

```
Out[54]: DatetimeIndex(['2024-05-01', '2024-05-02', '2024-05-03', '2024-05-04',  
                        '2024-05-05', '2024-05-06'],  
                        dtype='datetime64[ns]', freq='D')
```

```
In [58]: pd.date_range("2024-05-01", periods=20)
```

```
Out[58]: DatetimeIndex(['2024-05-01', '2024-05-02', '2024-05-03', '2024-05-04',  
                        '2024-05-05', '2024-05-06', '2024-05-07', '2024-05-08',  
                        '2024-05-09', '2024-05-10', '2024-05-11', '2024-05-12',  
                        '2024-05-13', '2024-05-14', '2024-05-15', '2024-05-16',  
                        '2024-05-17', '2024-05-18', '2024-05-19', '2024-05-20'],  
                        dtype='datetime64[ns]', freq='D')
```

```
In [ ]:
```