

In [1]: `import pandas as pd`

In [3]: `b=pd.read_excel(r"C:\Users\kavya\Downloads\archive\rawdata.xlsx")`

In [4]: `b`

Out[4]:

	ADDRESS	DATE	NAME	time
0	45 rd, kenith street, btm, bangalore 500038	2023-09-03	abc	8:30:21
1	45 rd, street, hitech, Hd 500038	2022-04-02	dec	5:30:21

In [5]: `b.shape`

Out[5]: (2, 4)

In [6]: `b.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2 entries, 0 to 1
Data columns (total 4 columns):
#   Column      Non-Null Count  Dtype
---  -
0   ADDRESS     2 non-null      object
1   DATE        2 non-null      datetime64[ns]
2   NAME        2 non-null      object
3   time        2 non-null      object
dtypes: datetime64[ns](1), object(3)
memory usage: 192.0+ bytes
```

In [10]:

```
b['year']=pd.to_datetime(b['DATE']).dt.year
b['month']=pd.to_datetime(b['DATE']).dt.month
b['day']=pd.to_datetime(b['DATE']).dt.day
b['hrs']=pd.to_datetime(b['time']).dt.hour
b['mins']=pd.to_datetime(b['time']).dt.minute
b['secs']=pd.to_datetime(b['time']).dt.second
```

*#pd.to_datetime()
arg: 'DatetimeSca
#errors: 'DateTime*

In [11]: `b`

Out[11]:

	ADDRESS	DATE	NAME	time	year	month	day	hours	mins	secs	hrs
0	45 rd, kenith street, btm, bangalore 500038	2023-09-03	abc	8:30:21	2023	9	3	8	30	21	8
1	45 rd, street, hitech, Hd 500038	2022-04-02	dec	5:30:21	2022	4	2	5	30	21	5

```
In [13]: b1=b["ADDRESS"].str.split(", ",n=4,expand=True)
b1
```

```
Out[13]:
```

	0	1	2	3
0	45 rd	kenith street	btm	bangalore 500038
1	45 rd	street	hitech	Hd 500038

```
In [14]: b["road"]=b1[0]
b["street"]=b1[1]
b["city"]=b1[2]
b["state"]=b1[3]
```

```
In [15]: b
```

```
Out[15]:
```

	ADDRESS	DATE	NAME	time	year	month	day	hours	mins	secs	hrs	road	street
0	45 rd, kenith street, btm, bangalore 500038	2023- 09-03	abc	8:30:21	2023	9	3	8	30	21	8	45 rd	kenith street
1	45 rd, street, hitech, Hd 500038	2022- 04-02	dec	5:30:21	2022	4	2	5	30	21	5	45 rd	street

```
In [16]: b2=b["state"].str.split(" ",n=0,expand=True)
b2
```

```
Out[16]:
```

	0	1	2
0		bangalore	500038
1		Hd	500038

```
In [17]: b["state"]=b2[1]
b["zip"]=b2[2]
b
```

Out[17]:

	ADDRESS	DATE	NAME	time	year	month	day	hours	mins	secs	hrs	road	street
0	45 rd, kenith street, btm, bangalore 500038	2023- 09-03	abc	8:30:21	2023	9	3	8	30	21	8	45 rd	kenith street
1	45 rd, street, hitech, Hd 500038	2022- 04-02	dec	5:30:21	2022	4	2	5	30	21	5	45 rd	street

```
In [18]: b=b.drop(columns=["ADDRESS"],axis=1)
b
```

Out[18]:

	DATE	NAME	time	year	month	day	hours	mins	secs	hrs	road	street	city
0	2023- 09-03	abc	8:30:21	2023	9	3	8	30	21	8	45 rd	kenith street	btm bang
1	2022- 04-02	dec	5:30:21	2022	4	2	5	30	21	5	45 rd	street	hitech

```
In [19]: b=b.drop(columns=['DATE','time'],axis=1)
b
```

Out[19]:

	NAME	year	month	day	hours	mins	secs	hrs	road	street	city	state	zip
0	abc	2023	9	3	8	30	21	8	45 rd	kenith street	btm	bangalore	500038
1	dec	2022	4	2	5	30	21	5	45 rd	street	hitech	Hd	500038

```
In [ ]:
```