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

In [4]:
```
clean=pd.read_excel(r'C:\Users\user\Desktop\excel\Book1.xlsx')
clean
```

Out[4]:

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

In [7]:
```
clean.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2 entries, 0 to 1
Data columns (total 4 columns):
 #   Column  Non-Null Count  Dtype         
---  ------  --------------  -----         
 0   ADDR    2 non-null      object        
 1   DT      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: 196.0+ bytes
```

In [8]:
```
clean.head()
```

Out[8]:

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

In [9]:
```
clean.describe()
```

Out[9]:

	DT
count	2
mean	2022-04-02 12:00:00
min	2022-04-02 00:00:00
25%	2022-04-02 06:00:00
50%	2022-04-02 12:00:00
75%	2022-04-02 18:00:00
max	2022-04-03 00:00:00

In [11]:
```
clean[['home','street','area','city']]=clean['ADDR'].str.split(',',expand=True)
clean
```

Out[11]:

	ADDR	DT	NAME	time	home	street	area	city
0	45 rd, kenith street, btm, bangalore 500038	2022-04-03	abc	8:30:21	45 rd	kenith street	btm	bangalore 500038
1	45 rd, street, hitech, Hd 500038	2022-04-02	dec	5:30:21	45 rd	street	hitech	Hd 500038

In [21]:
```
clean=clean.drop(columns=['ADDR'])
clean
```

Out[21]:

	DT	NAME	time	home	street	area	city
0	2022-04-03	abc	8:30:21	45 rd	kenith street	btm	bangalore 500038
1	2022-04-02	dec	5:30:21	45 rd	street	hitech	Hd 500038

In [25]:
```
clean[['hours','min','sec']]=clean['time'].str.split(':',expand=True)
clean
```

Out[25]:

	DT	NAME	time	home	street	area	city	hours	min	sec
0	2022-04-03	abc	8:30:21	45 rd	kenith street	btm	bangalore 500038	8	30	21
1	2022-04-02	dec	5:30:21	45 rd	street	hitech	Hd 500038	5	30	21

In [26]:
```
clean=clean.drop(columns=['time'])
clean
```

Out[26]:

	DT	NAME	home	street	area	city	hours	min	sec
0	2022-04-03	abc	45 rd	kenith street	btm	bangalore 500038	8	30	21
1	2022-04-02	dec	45 rd	street	hitech	Hd 500038	5	30	21

In [32]:
```
clean['DT']=clean['DT'].astype(str)
clean[['year','month','day']]=clean['DT'].str.split('-',expand=True)
clean.head()
```

Out[32]:

	DT	NAME	home	street	area	city	hours	min	sec	year	month	day
0	2022-04-03	abc	45 rd	kenith street	btm	bangalore 500038	8	30	21	2022	04	03
1	2022-04-02	dec	45 rd	street	hitech	Hd 500038	5	30	21	2022	04	02

In [35]:
```
clean.head()
```

Out[35]:

	NAME	home	street	area	city	hours	min	sec	year	month	day
0	abc	45 rd	kenith street	btm	bangalore 500038	8	30	21	2022	04	03
1	dec	45 rd	street	hitech	Hd 500038	5	30	21	2022	04	02

In [36]:
```
clean.i
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_9240\3316154820.py in ?()
----> 1 clean.i

~\anaconda3\Lib\site-packages\pandas\core\generic.py in ?(self, name)
   6295             and name not in self._accessors
   6296             and self._info_axis._can_hold_identifiers_and_holds_name(nam
e)
   6297         ):
   6298             return self[name]
-> 6299         return object.__getattribute__(self, name)

AttributeError: 'DataFrame' object has no attribute 'i'
```

In [ ]:

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