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

In [5]:
```
rawdata=pd.read_excel(r"C:\Users\monur\Downloads\16th,17th matplotlib\16th,17th
```

In [7]:
```
rawdata
```

Out[7]:

	Unnamed: 0	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unı
0	NaN	THIS IS NOT CLEAN DATA	NaN	NaN	NaN	NaN	NaN	
1	NaN	NaN	ADDR	DT	NAME	time	NaN	
2	NaN	NaN	45 rd, kenith street, btm, bangalore 500038	2022-04-03 00:00:00	abc	8:30:21	NaN	
3	NaN	NaN	45 rd, street, hitech, Hd 500038	2022-04-02 00:00:00	dec	5:30:21	NaN	
4	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
5	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
6	NaN	THIS IS CLEAN DATA	NaN	NaN	NaN	NaN	NaN	
7	NaN	NaN	House add	street	city	state	zip	
8	NaN	NaN	45 rd	kenith	btm	banga	50038	

In [9]:
```
rawtable={
"ADDR":["45 rd, kenith street, btm, bangalore 500038","45 rd, street, hitech, Hd
"DT" :["03-04-2022","02-04-2022"],
"NAME":["abc","dec"],
"time":["8:30:21","5:30:21"]
}
df=pd.DataFrame(rawtable)
print(df)
```

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

In [11]:
```
addr_split=df.ADDR.str.split(',',expand=True) #symtax remember
addr_split
```

Out[11]:

	0	1	2	3	4
0	45 rd	kenith street	btm	bangalore 500038	None
1	45 rd	street	hitech	Hd	500038

In [13]:
```
df['House add']=addr_split[0]
df['House add']
```

Out[13]:
```
0    45 rd
1    45 rd
Name: House add, dtype: object
```

In [15]:
```
df['street']=addr_split[1]
df['street']
```

Out[15]:
```
0     kenith street
1            street
Name: street, dtype: object
```

In [17]:
```
df['city']=addr_split[2].str.strip()
df['city']
```

Out[17]:
```
0       btm
1    hitech
Name: city, dtype: object
```

In [19]:
```
df['state and pin']=addr_split[3].str.strip()
```

In [21]:
```
df['state and pin']
```

Out[21]:
```
0    bangalore 500038
1                  Hd
Name: state and pin, dtype: object
```

In [23]:
```
df['state']=df['state and pin'].str.split(' ',expand=True)[0]
df['state']
```

Out[23]:
```
0    bangalore
1           Hd
Name: state, dtype: object
```

In [25]:
```
df['zip']=df['state and pin'].str.split(' ',expand=True)[1]
df['zip']
```

Out[25]:
```
0    500038
1      None
Name: zip, dtype: object
```

In [27]:
```
df[['date', 'month', 'year']] = df['DT'].str.split('-', expand=True)
df[['date', 'month', 'year']]
```

Out[27]:

	date	month	year
0	03	04	2022
1	02	04	2022

In [29]:
```
df.month
```

Out[29]:
```
0    04
1    04
Name: month, dtype: object
```

In [31]:
```
df.year
```

Out[31]:
```
0    2022
1    2022
Name: year, dtype: object
```

In [35]:
```
df.date
```

Out[35]:
```
0    03
1    02
Name: date, dtype: object
```

In [37]:
```
df[['hr','min','sec']]=df['time'].str.split(':',expand=True)
```

In [39]:
```
df[['hr','min','sec']]
```

Out[39]:

	hr	min	sec
0	8	30	21
1	5	30	21

In [41]:
```
df['hr']
```

Out[41]:
```
0    8
1    5
Name: hr, dtype: object
```

In [43]:
```
df['min']
```

Out[43]:
```
0    30
1    30
Name: min, dtype: object
```

In [45]:
```
df['sec']
```

Out[45]:
```
0    21
1    21
Name: sec, dtype: object
```

In [ ]:
```

```