Let's import Library

```
In [ ]:  import pandas as pand
```

```
In [188...  rw = pand.read_excel(r'C:\Users\hp\Downloads\27th\TASK\taskshikha.xlsx') ##Let's re
           rw
```

Out[188...

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

```
In [189...  rw.shape ##dimention of Dataframe
```

Out[189... `(2, 4)`

```
In [190...  rw.columns ##columns of raw data
```

Out[190... `Index(['ADDR', 'DT', 'NAME', 'time'], dtype='object')`

```
In [196...  rw[['House add','street','city','state','zip']] =(rw['ADDR'].str.split(',' , expand
```

```
In [197...  rw ##calling of Dataframe to view the output
```

Out[197...

	ADDR	DT	NAME	time	House add	street	city	state	zip
0	45 rd, kenith street, btm, bangalore, 500038	2022-03-04	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 [203...  from datetime import datetime ## Let's import one more library to split date & time
```

```
In [200...  rw['DT'] = pand.to_datetime(rw['DT']) ##introducing new funtion (to_datetime) becau
```

```
In [201...  rw['year'] = rw['DT'].dt.year
           rw['month'] = rw['DT'].dt.month
           rw['day'] = rw['DT'].dt.day
           rw
```

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

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In [204...
```python
rw['time'] = pand.to_datetime(rw['time'])## same as above
```

In [205...
```python
rw['hour'] = rw['time'].dt.hour
rw['minute'] = rw['time'].dt.minute
rw['second'] = rw['time'].dt.second
rw
```

	ADDR	DT	NAME	time	House add	street	city	state	zip	year	mor
0	45 rd, kenith street, btm, bangalore, 500038	2022-03-04	abc	2024-03-28 08:30:21	45 rd	kenith street	btm	bangalore	500038	2022	
1	45 rd, street, hitech, Hd, 500038	2022-04-02	dec	2024-03-28 05:30:21	45 rd	street	hitech		Hd	500038	2022	

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In [206...
```python
rw.columns ## getting columns
```

Out[206...
```
Index(['ADDR', 'DT', 'NAME', 'time', 'House add', 'street', 'city', 'state',
       'zip', 'year', 'month', 'day', 'hour', 'minute', 'second'],
      dtype='object')
```

In [207...
```python
columns_to_remove = ['ADDR','DT','time'] ## In order to print desired output we nee
```

In [208...
```python
clean_data = rw.drop(columns=columns_to_remove) ## Using drop functions to clean mu
```

In [209...
```python
print(clean_data) ## printing clean data.
```

```
      NAME House add           street       city       state       zip  year  month  \
0      abc     45 rd  kenith street        btm   bangalore  500038  2022      3
1      dec     45 rd         street     hitech          Hd  500038  2022      4

   day  hour  minute  second
0    4     8      30      21
1    2     5      30      21
```

In [212...
```python
new_order = ['House add','street','city','state','zip','month','day','year','NAME',
clean_data = clean_data[new_order]
clean_data[0:1] ## slicing required as only one row needed after cleaning of data.
```

Out[212...

	House add	street	city	state	zip	month	day	year	NAME	hour	minute	secol
0	45 rd	kenith street	btm	bangalore	500038	3	4	2022	abc	8	30	

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Desired Output:-----As per requirement

THIS IS CLEAN DATA													
	House add	street	city	state	zip	month	data	year	name	hr	min	sec	
	45 rd	kenith	btm	banga	50038	3	4	2022	abc	8	30	21	