```
import pandas as pd
 In [1]:
          b=pd.read_excel(r"C:\Users\kavya\Downloads\archive\rawdata.xlsx")
 In [3]:
 In [4]:
          b
 Out[4]:
                                                    DATE NAME
                                     ADDRESS
                                                                  time
            45 rd, kenith street, btm, bangalore 500038
                                                                8:30:21
                                               2023-09-03
                                                            abc
           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):
                         Non-Null Count Dtype
               Column
           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
                                                                        #pd.to_datetime()
          b['day']=pd.to datetime(b['DATE']).dt.day
                                                                         # arg: 'DatetimeSca
          b['hrs']=pd.to_datetime(b['time']).dt.hour
                                                                          #errors: 'DateTime
          b['mins']=pd.to_datetime(b['time']).dt.minute
          b['secs']=pd.to datetime(b['time']).dt.second
In [11]:
          b
Out[11]:
                       ADDRESS
                                   DATE NAME
                                                       year month day hours mins secs hrs
                                                  time
                 45 rd, kenith street.
                                   2023-
                                           abc 8:30:21
                                                       2023
                                                                                30
                                                                                      21
                                                                                           8
              btm, bangalore 500038
                                   09-03
              45 rd, street, hitech, Hd
                                   2022-
                                           dec 5:30:21 2022
                                                                 4
                                                                     2
                                                                            5
                                                                                30
                                                                                      21
                                                                                           5
                                   04-02
                          500038
```

```
b1=b["ADDRESS"].str.split(",",n=4,expand=True)
In [13]:
Out[13]:
                 0
                             1
                                   2
                                                    3
                                 btm bangalore 500038
           0 45 rd kenith street
           1 45 rd
                         street hitech
                                            Hd 500038
          b["road"]=b1[0]
In [14]:
          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
                  45 rd,
                  kenith
                  street,
                         2023-
                                                                                         45
                                                                                             kenith
           0
                                 abc 8:30:21 2023
                                                        9
                                                             3
                                                                    8
                                                                         30
                                                                               21
                         09-03
                                                                                             street
                   btm,
               bangalore
                 500038
                  45 rd,
                  street,
                         2022-
                                                                                         45
                                 dec 5:30:21 2022
                                                             2
                                                                    5
                                                                         30
                                                                               21
                                                                                             street
               hitech, Hd
                         04-02
                 500038
          b2=b["state"].str.split(" ",n=0,expand=True)
In [16]:
          b2
Out[16]:
              0
                        1
                                2
                          500038
           0
                 bangalore
                      Hd 500038
           1
```

```
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
                   45 rd,
                   kenith
                   street,
                          2023-
                                                                                             45
                                                                                                 kenith
            0
                                   abc 8:30:21 2023
                                                           9
                                                                3
                                                                       8
                                                                             30
                                                                                  21
                                                                                        8
                          09-03
                                                                                                 street
                    btm,
                bangalore
                  500038
                   45 rd,
                   street,
                          2022-
                                                                2
                                                                                  21
                                                                                        5
            1
                                   dec 5:30:21 2022
                                                                       5
                                                                             30
                                                                                                  street
                hitech, Hd
                          04-02
                  500038
           b=b.drop(columns=["ADDRESS"],axis=1)
In [18]:
Out[18]:
               DATE NAME
                                          month day
                                                        hours
                                     year
                                                              mins
                                                                     secs
                                                                           hrs
                                                                                road
                                                                                      street
                                                                                               city
               2023-
                                                                                  45
                                                                                      kenith
            0
                        abc 8:30:21 2023
                                                9
                                                     3
                                                            8
                                                                 30
                                                                        21
                                                                             8
                                                                                               btm bang
               09-03
                                                                                       street
                                                                                  rd
               2022-
                                                                                  45
                                                     2
                        dec 5:30:21 2022
                                                            5
                                                                 30
                                                                        21
                                                                             5
                                                4
                                                                                       street hitech
               04-02
                                                                                  rd
In [19]:
           b=b.drop(columns=['DATE','time'],axis=1)
Out[19]:
                                    day
               NAME
                      year month
                                        hours
                                                mins
                                                      secs
                                                            hrs
                                                                 road
                                                                        street
                                                                                 city
                                                                                          state
                                                                                                    zip
                                                                   45
                                                                        kenith
            0
                 abc
                      2023
                                 9
                                      3
                                             8
                                                  30
                                                         21
                                                              8
                                                                                 btm
                                                                                     bangalore
                                                                                                500038
                                                                    rd
                                                                        street
                                                                   45
            1
                 dec 2022
                                      2
                                             5
                                                  30
                                                        21
                                                              5
                                                                        street hitech
                                                                                            Hd 500038
                                                                    rd
 In [ ]:
```