CLEANING THE ADDR VALUES

```
In [8]: data['ADDR']
 Out[8]: 0
               45 rd, kenith street, btm, bangalore, 500038
                         45 rd, street, hitech, Hd, 500038
          Name: ADDR, dtype: object
         # WE CANNOT DIRECTLY PERFORM THE SPLIT OPERATION TO THE DATA, SO WE NEED TO USE
In [12]:
         addr split = data['ADDR'].str.split(',', expand = True)
In [24]: addr_split
Out[24]:
                0
                            1
                                   2
                                             3
                                                     4
          0 45 rd kenith street
                                 btm bangalore 500038
          1 45 rd
                        street hitech
                                            Hd 500038
In [51]:
         data['House Address'] = addr_split[0].str.strip()
         data['Street'] = addr_split[1].str.strip()
         data['City'] = addr_split[2].str.strip().str.strip()
         data['State'] = addr_split[3].str.strip()
         data['Pincode'] = addr_split[4].str.strip()
         data = data.drop('ADDR', axis = 1)
In [53]: data
Out[53]:
                                             House
                   DT NAME
                                 time
                                                                  City
                                                                           State Pincode
                                                         Street
                                            Address
              2022-04-
                                                         kenith
                          abc 8:30:21
                                              45 rd
                                                                  btm bangalore
                                                                                   500038
                   03
                                                         street
              2022-04-
          1
                          dec 5:30:21
                                              45 rd
                                                                                  500038
                                                         street hitech
                                                                             Hd
```

CLEANING THE DATE VALUES

```
data['DT']
In [56]:
Out[56]: 0
              2022-04-03
              2022-04-02
          Name: DT, dtype: datetime64[ns]
In [58]:
         data['DT'] = pd.to_datetime(data['DT'])
         data['Year'] = data['DT'].dt.year
In [62]:
          data['Month'] = data['DT'].dt.month
          data['Day'] = data['DT'].dt.day
          data = data.drop('DT', axis = 1)
In [64]:
         data
Out[64]:
                              House
             NAME
                      time
                                      Street
                                               City
                                                        State Pincode Year Month Day
                             Address
                                      kenith
                               45 rd
          0
                abc 8:30:21
                                               btm bangalore
                                                                500038 2022
                                                                                   4
                                                                                        3
                                       street
                dec 5:30:21
                               45 rd
                                       street hitech
                                                                500038 2022
                                                                                        2
```

CLEANING THE TIME VALUES

```
In [67]: data['time']
Out[67]: 0
               8:30:21
               5:30:21
          Name: time, dtype: object
In [69]:
         data['time'] = pd.to_timedelta(data['time'])
In [71]:
          data['Hours'] = data['time'].dt.components.hours
          data['Minutes'] = data['time'].dt.components.minutes
          data['Seconds'] = data['time'].dt.components.seconds
          data = data.drop('time', axis = 1)
         data
In [73]:
Out[73]:
                      House
             NAME
                             Street
                                      City
                                               State
                                                      Pincode
                                                               Year Month Day Hours Min
                    Address
                             kenith
                       45 rd
                                                                                      8
          0
                                           bangalore
                                                       500038
                                                              2022
                                                                               3
               abc
                                      btm
                              street
                                                                                      5
               dec
                       45 rd
                              street hitech
                                                 Hd
                                                       500038 2022
```

```
data.columns
In [75]:
Out[75]: Index(['NAME', 'House Address', 'Street', 'City', 'State', 'Pincode', 'Year',
                 'Month', 'Day', 'Hours', 'Minutes', 'Seconds'],
                dtype='object')
In [79]: data = data[['House Address', 'Street', 'City', 'State', 'Pincode', 'NAME', 'Yea
         data
Out[79]:
              House
                     Street
                                       State Pincode NAME Year Month Day Hours Min
                              City
             Address
                     kenith
               45 rd
                                                                                     8
          0
                              btm bangalore
                                              500038
                                                         abc 2022
                      street
               45 rd
                      street hitech
                                              500038
                                                         dec 2022
                                                                              2
                                                                                     5
                                         Hd
                                                                        4
```