```
import pandas as pd
import numpy as np
import pickle
import datetime
import calendar
import warnings
warnings.filterwarnings('ignore')
```

In [2]: a=pd.re

a=pd.read_csv("C:\\Users\\reshma_koduri\\OneDrive\\Documents\\uber.csv")
a

Out[2]:	Unnamed: 0		key	fare_amount	pickup_datetime	pickup_longitude	pickup_latit
	0	24238194	2015-05-07 19:52:06.0000003	7.5	2015-05-07 19:52:06 UTC	-73.999817	40.738
	1	27835199	2009-07-17 20:04:56.0000002	7.7	2009-07-17 20:04:56 UTC	-73.994355	40.728
	2	44984355	2009-08-24 21:45:00.00000061	12.9	2009-08-24 21:45:00 UTC	-74.005043	40.740
	3	25894730	2009-06-26 08:22:21.0000001	5.3	2009-06-26 08:22:21 UTC	-73.976124	40.790
	4	17610152	2014-08-28 17:47:00.000000188	16.0	2014-08-28 17:47:00 UTC	-73.925023	40.744
	•••						
	199995	42598914	2012-10-28 10:49:00.00000053	3.0	2012-10-28 10:49:00 UTC	-73.987042	40.739
	199996	16382965	2014-03-14 01:09:00.0000008	7.5	2014-03-14 01:09:00 UTC	-73.984722	40.736
	199997	27804658	2009-06-29 00:42:00.00000078	30.9	2009-06-29 00:42:00 UTC	-73.986017	40.756
	199998	20259894	2015-05-20 14:56:25.0000004	14.5	2015-05-20 14:56:25 UTC	-73.997124	40.725
	199999	11951496	2010-05-15 04:08:00.00000076	14.1	2010-05-15 04:08:00 UTC	-73.984395	40.720

200000 rows × 9 columns

In [3]: a.describe()

Out[3]: Unnamed: 0 pickup_latitude dropoff_longitude fare_amount pickup_longitude dropoff_lat count 2.000000e+05 200000.000000 200000.000000 200000.000000 199999.000000 199999.0 2.771250e+07 11.359955 -72.527638 39.935885 39.9 mean -72.525292 std 1.601382e+07 9.901776 11.437787 7.720539 13.117408 6.7 1.000000e+00 -52.000000 -1340.648410 -74.015515 -3356.666300 -881.9 min 25% 1.382535e+07 6.000000 -73.992065 40.734796 -73.991407 40.7

	Unnamed: 0	fare_amount	pickup_longitude	pickup_latitude	dropoff_longitude	dropoff_lat
50%	2.774550e+07	8.500000	-73.981823	40.752592	-73.980093	40.7
75%	4.155530e+07	12.500000	-73.967154	40.767158	-73.963658	40.7
max	5.542357e+07	499.000000	57.418457	1644.421482	1153.572603	872.6

```
In [4]:
         a.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 200000 entries, 0 to 199999
        Data columns (total 9 columns):
             Column
                                Non-Null Count
         #
                                                 Dtype
             -----
                                -----
                                                 ----
         0
             Unnamed: 0
                               200000 non-null int64
                               200000 non-null object
         1
             key
         2
             fare amount
                                200000 non-null float64
             pickup_datetime
                                200000 non-null object
         3
         4
             pickup_longitude 200000 non-null float64
         5
             pickup_latitude
                                200000 non-null float64
             dropoff_longitude 199999 non-null float64
         6
                                199999 non-null float64
         7
             dropoff_latitude
                                200000 non-null int64
             passenger_count
        dtypes: float64(5), int64(2), object(2)
        memory usage: 13.7+ MB
In [5]:
         a.isna().sum()
                             0
        Unnamed: 0
Out[5]:
        key
                             0
        fare_amount
                             0
        pickup_datetime
                             0
        pickup_longitude
        pickup_latitude
                             0
        dropoff_longitude
        dropoff_latitude
                             1
        passenger_count
                             0
        dtype: int64
In [6]:
         a.fillna(35,inplace=True)
In [7]:
         from datetime import datetime
         a['year'] = pd.DatetimeIndex(a['key']).year
         a['time'] = pd.DatetimeIndex(a['key']).hour
         a['month'] = pd.DatetimeIndex(a['key']).month
In [8]:
```

Out[8]:	Unnamed: 0		key	fare_amount	pickup_datetime	pickup_longitude	pickup_latitu
	0	24238194	2015-05-07 19:52:06.0000003	7.5	2015-05-07 19:52:06 UTC	-73.999817	40.738
	1	27835199	2009-07-17 20:04:56.0000002	7.7	2009-07-17 20:04:56 UTC	-73.994355	40.728

	Unnamed: 0	key	fare_amount	pickup_datetime	pickup_longitude	pickup_latitı
2	44984355	2009-08-24 21:45:00.00000061	12.9	2009-08-24 21:45:00 UTC	-74.005043	40.740
3	25894730	2009-06-26 08:22:21.0000001	5.3	2009-06-26 08:22:21 UTC	-73.976124	40.790
4	17610152	2014-08-28 17:47:00.000000188	16.0	2014-08-28 17:47:00 UTC	-73.925023	40.744
•••						
199995	42598914	2012-10-28 10:49:00.00000053	3.0	2012-10-28 10:49:00 UTC	-73.987042	40.739
199996	16382965	2014-03-14 01:09:00.0000008	7.5	2014-03-14 01:09:00 UTC	-73.984722	40.736
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199998	20259894	2015-05-20 14:56:25.0000004	14.5	2015-05-20 14:56:25 UTC	-73.997124	40.725
199999	11951496	2010-05-15 04:08:00.00000076	14.1	2010-05-15 04:08:00 UTC	-73.984395	40.720

200000 rows × 12 columns

```
In [9]:
           list(a)
          ['Unnamed: 0',
 Out[9]:
           'key',
           'fare_amount',
           'pickup_datetime',
           'pickup_longitude',
           'pickup_latitude',
           'dropoff_longitude',
           'dropoff_latitude',
           'passenger_count',
           'year',
           'time',
'month']
In [10]:
           b=a.drop(['Unnamed: 0','pickup_datetime','dropoff_longitude','pickup_latitude','pick
0
```

Out[10]:		key	fare_amount	passenger_count	year	time	month
	0	2015-05-07 19:52:06.0000003	7.5	1	2015	19	5
	1	2009-07-17 20:04:56.0000002	7.7	1	2009	20	7
	2	2009-08-24 21:45:00.00000061	12.9	1	2009	21	8
	3	2009-06-26 08:22:21.0000001	5.3	3	2009	8	6
	4	2014-08-28 17:47:00.000000188	16.0	5	2014	17	8
	•••						
	199995	2012-10-28 10:49:00.00000053	3.0	1	2012	10	10

	key	fare_amount	passenger_count	year	time	month
199996	2014-03-14 01:09:00.0000008	7.5	1	2014	1	3
199997	2009-06-29 00:42:00.00000078	30.9	2	2009	0	6
199998	2015-05-20 14:56:25.0000004	14.5	1	2015	14	5
199999	2010-05-15 04:08:00.00000076	14.1	1	2010	4	5

200000 rows × 6 columns

```
In [11]: b.to_csv('result2023.csv')
In []:
```