```
import numpy as np
         df = pd.read_csv('USA_cars_datasets.csv')
         df.head()
                              brand model year title_status mileage color
                                                                                                       state country
                                                                                                                     condition
Out[2]:
           Unnamed: 0 price
                                                                                     vin
                                                                                               lot
        0
                   0 6300
                              toyota cruiser 2008 clean vehicle 274117.0 black
                                                                          jtezu11f88k007763 159348797 new jersey
                                                                                                                    10 days left
        1
                   1 2899
                                       se 2011 clean vehicle 190552.0 silver
                                                                        2fmdk3gc4bbb02217 166951262
                                                                                                                     6 days left
                               ford
                                                                                                  tennessee
        2
                                                           39590.0
                                                                         3c4pdcgg5jt346413 167655728
                                                                                                                     2 days left
                   2 5350
                              dodge
                                      mpv 2018 clean vehicle
                                                                   silver
                                                                                                     georgia
                                                                          1ftfw1et4efc23745 167753855
                                                                                                               usa 22 hours left
                   3 25000
                                      door 2014 clean vehicle
                                                           64146.0
                                                                   blue
                                                                                                     virginia
                               ford
        4
                                                                         3gcpcrec2jg473991 167763266
                   4 27700 chevrolet
                                     1500 2018 clean vehicle
                                                            6654.0
                                                                                                      florida
                                                                                                               usa 22 hours left
        Top car brand in terms of number of cars.
         print(df.isnull().sum())
        Unnamed: 0
                         0
                         0
         price
                         0
        brand
                         0
        model
        year
         title_status
        mileage
        color
        vin
        lot
        state
                         0
        country
        condition
                         0
        dtype: int64
In [4]:
         gmc = df[df.brand == 'gmc']['lot'].sum()
         nissan = df[df.brand == 'nissan']['lot'].sum()
         dodge = df[df.brand == 'dodge']['lot'].sum()
         ford = df[df.brand == 'ford']['lot'].sum()
         list1 = [gmc, nissan, dodge, ford]
         print(max(list1), ford)
         207115996784 207115996784
        Which of the following car brand is not there in the dataset?
         list2 = ['ford', 'dodge', 'nissan', 'gmc', 'ferrari']
         df.brand.unique()
         for i in list2:
             print(i,i in df.brand.unique())
         ford True
        dodge True
         nissan True
         gmc True
         ferrari False
        Average Price of cars in 2018? (Neglect the decimal values)
In [6]:
         sums = df[df.year == 2018]["price"].sum()
         count = df[df.year == 2018]["price"].count()
         print(sums//count)
         19058
        Most expensive car brand with maximum average car price?
In [7]:
         list3 = ['ford', 'lexus', 'nissan', 'harley-davidson']
         for i in list3:
             sums = 0
             count = 0
             count = df[df.brand == i]['price'].count()
             sums = df[df.brand == i]['price'].sum()
             print(i, sums//count)
         ford 21666
        lexus 33220
        nissan 12065
         harley-davidson 54680
        Which state is having most expensive cars (maximum average car price)?
In [8]:
         list4 = ['kentucky', 'ontario', 'new mexico', 'california']
         for i in list4:
             sums = 0
             count = 0
             count = df[df.state == i]['price'].count()
             sums = df[df.state == i]['price'].sum()
             print(i, sums//count)
         kentucky 44969
         ontario 30357
         new mexico 27375
         california 17836
In [ ]:
```

In [1]:

import pandas as pd