import numpy as np

import pandas as pd

df = pd.read\_csv("Automobile\_data.csv")

print (df)

print (df.isna().sum())

#Q11. Remove all NA values

meanWheelBase = df['wheel-base'].mean()

df['wheel-base'].fillna(meanWheelBase, inplace=True)

meanHorsepower = df['horsepower'].mean()

df['horsepower'].fillna(meanHorsepower, inplace=True)

meanPrice = df['price'].mean()

df['price'].fillna(meanPrice, inplace=True)

print (df.isna().sum()) #NA values are filled with mean

print ("")

#Q2 Done (cleared na values)

#Q3. Most expensive car company name

maxprice = df['price'].max()

print (maxprice)

#Q4

df.set\_index('company', inplace= True)

print (df)

print(df.loc['toyota'])

print ('')

#Q5

print ("Count:-")

print ("")

df.value\_counts()

#Q7

#Q8

print (df.sort\_values('price'))

#Q9

GermanCars = pd.DataFrame({'Company': ['Ford', 'Mercedes', 'BMV', 'Audi'], 'Price': [23845, 171995, 135925 , 71400]})

print (GermanCars)

print ("")

japaneseCars = pd.DataFrame({'Company': ['Toyota', 'Honda', 'Nissan', 'Mitsubishi '], 'Price': [29995, 23600, 61500 , 58900]})

print (GermanCars)

allCars = GermanCars.append(japaneseCars, ignore\_index=True)

print (allCars)

print ("")

#Q10

Car\_Price = pd.DataFrame({'Company': ['Toyota', 'Honda', 'BMV', 'Audi'], 'Price': [23845, 17995, 135925 , 71400]})

car\_Horsepower = pd.DataFrame({'Company': ['Toyota', 'Honda', 'BMV', 'Audi'], 'horsepower': [141, 80, 182 , 160]})

allCars2 = Car\_Price.merge(car\_Horsepower)

print (allCars2)