CODE OUTPUT:

#GET DATA Function

PS C:\Users\Chinmay\Desktop\DMProject\Codes> python ProjectCode.py

Files In Directory Are : ['Car\_Sales1.csv', 'Car\_Sales2.csv', 'Car\_Sales3.csv', 'Cleaned.csv']

Location Of File : C:/Users/Chinmay/Desktop/DMProject/Data/ProjectData/All\_Cars\_Sales.csv

List Of Columns In Dataframe : ['Manufacturer', 'Model', 'Sales in thousands', '4-year resale value', 'Vehicle type', 'Price in thousands', 'Engine size', 'Horsepower', 'Wheelbase', 'Width', 'Length', 'Curb weight', 'Fuel capacity', 'Fuel efficiency', 'Latest Launch']

Dimensions Of The Frame : (299, 15)

PS C:\Users\Chinmay\Desktop\DMProject\Codes>

#SELECT DATA Function

PS C:\Users\Chinmay\Desktop\DMProject\Codes> python ProjectCode.py

File Location : C:/Users/Chinmay/Desktop/DMProject/Data/ProjectData/All\_Cars\_Sales.csv

DataFrame Updated!File Saved!

PS C:\Users\Chinmay\Desktop\DMProject\Codes>

#CLEAN DATA Function

PS C:\Users\Chinmay\Desktop\DMProject\Codes> python ProjectCode.py

File Location : C:/Users/Chinmay/Desktop/DMProject/Data/ProjectData/All\_Cars\_Sales.csv

Checking The Data :

Manufacturer 6

Model 5

Sales in thousands 0

4-year resale value 67

Vehicle type 0

Price in thousands 4

Engine size 1

Horsepower 1

Curb weight 4

Fuel capacity 3

Fuel efficiency 4

Latest Launch 0

dtype: int64

['Manufacturer', 'Model', 'Sales in thousands', '4-year resale value', 'Vehicle type', 'Price in thousands', 'Engine size', 'Horsepower', 'Curb weight', 'Fuel capacity', 'Fuel efficiency', 'Latest Launch']

Average Value Of Price in thousands : 27.64020422535211

Average Value Of Curb weight : 3.371892857142857

Average Value Of Fuel capacity : 17.945714285714285

Average Value Of Fuel efficiency : 23.79136690647482

Location Of File : C:/Users/Chinmay/Desktop/DMProject/Data/ProjectData/Cleaned.csv

PS C:\Users\Chinmay\Desktop\DMProject\Codes>

#ANALYSE DATA Function

PS C:\Users\Chinmay\Desktop\DMProject\Codes> python ProjectCode.py

count 142

unique 30

top Dodge

freq 11

Name: Manufacturer, dtype: object

Average Fuel Efficency: 23.791366906474824

Average Fuel Horsepower: 186.01408450704224

142

SX = 3924.909

SY = 3378.374100719425

SXY = 88857.59671942446

XMEAN = 27.640204225352115

YMEAN = 27.640204225352115

Enter the Price Value to predict the Fuel Efficiency coefficient :30

Value Of A : -0.1490024263557036

Value Of B : 27.90982440101946

The Predicted Value is 23.439751610348353

Linear Regression Coeff Is : [[-0.14900243]]

PS C:\Users\Chinmay\Desktop\DMProject\Codes>