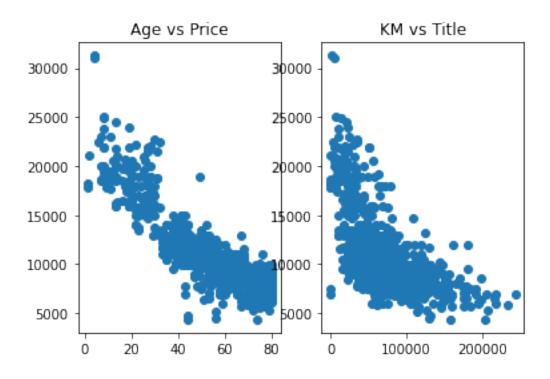
exp6

March 4, 2022

```
[]: import numpy as np
    import pandas as pd
    from matplotlib import pyplot as plt
    import seaborn as sb
[]: df = pd.read_csv("../Toyota.csv", index_col=0, na_values=["??","???"])
    df_copy = df.copy()
    df.dropna(axis=0, inplace=True)
    df.head()
[]:
       Price
                         KM FuelType HP
                                         MetColor Automatic
                                                                CC Doors
                                                                           Weight
               Age
    0 13500 23.0 46986.0
                              Diesel 90
                                               1.0
                                                           0 2000
                                                                    three
                                                                             1165
    1 13750 23.0 72937.0
                                               1.0
                              Diesel 90
                                                           0 2000
                                                                        3
                                                                             1165
    3 14950 26.0 48000.0
                              Diesel 90
                                              0.0
                                                           0 2000
                                                                        3
                                                                             1165
    4 13750 30.0 38500.0
                              Diesel 90
                                              0.0
                                                                        3
                                                                             1170
                                                           0 2000
    5 12950 32.0 61000.0
                              Diesel 90
                                              0.0
                                                           0 2000
                                                                        3
                                                                             1170
[]: # scatterplot
    plt.subplot(1,2,1)
    plt.scatter(df["Age"],df["Price"])
    plt.title("Age vs Price")
    plt.subplot(1,2,2)
    plt.scatter(df["KM"],df["Price"])
    plt.title("KM vs Title")
[]: Text(0.5, 1.0, 'KM vs Title')
```

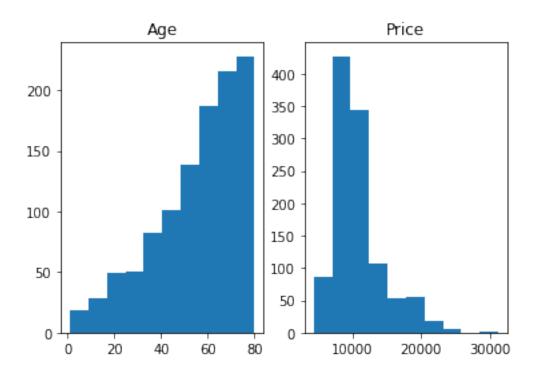


```
[]: # histogram

plt.subplot(1,2,1)
plt.hist(df["Age"])
plt.title("Age")

plt.subplot(1,2,2)
plt.hist(df["Price"])
plt.title("Price")
```

[]: Text(0.5, 1.0, 'Price')

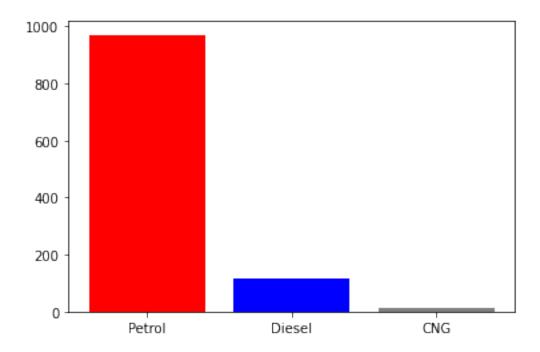


```
[]: # bar charts

count = df["FuelType"].value_counts()
count = dict(count)

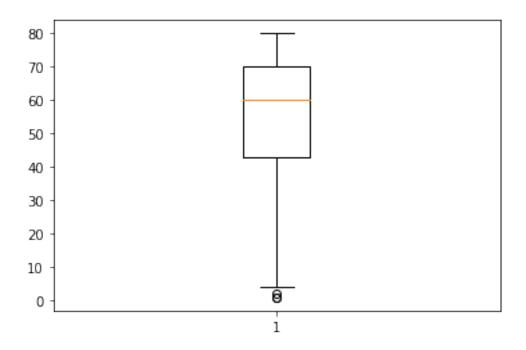
plt.bar(*zip(*count.items()), color = ['red', 'blue', "gray"])
```

[]: <BarContainer object of 3 artists>



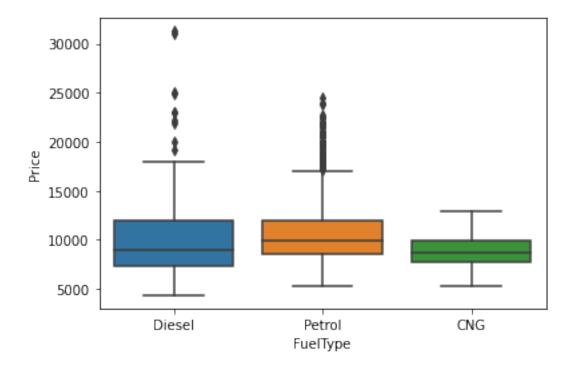
'fliers': [<matplotlib.lines.Line2D at 0x10c37fc86a0>],

'means': []}



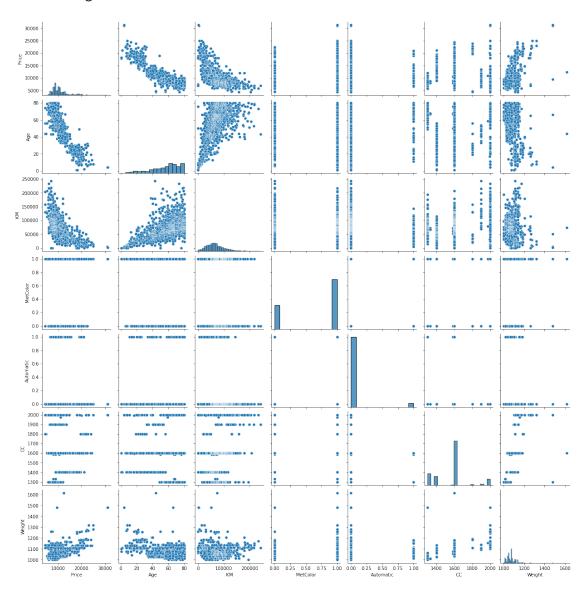
```
[]: # box with whisker in seaborn
sb.boxplot(x=df["FuelType"],y=df["Price"])
```

[]: <AxesSubplot:xlabel='FuelType', ylabel='Price'>



```
[]: # pairwise plot
sb.pairplot(df, kind="scatter")
```

[]: <seaborn.axisgrid.PairGrid at 0x10c37744ca0>



[]: