```
In [7]:
             import numpy as np
 In [8]:
             import pandas as pd
In [12]:
             car = pd.read_excel("mileage_new.xls")
In [13]:
             car
                                               acc modyr origin
Out[13]:
                 mpg
                       cyl
                             disp
                                    hp
                                          wt
                                                                                     name
              0
                  18.0
                                                                    chevrolet chevelle malibu
                         8
                            307.0
                                   130
                                        3504
                                               12.0
                                                        70
                                                                           buick skylark 320
              1
                  15.0
                         8
                            350.0
                                   165
                                        3693
                                               11.5
                                                        70
              2
                  18.0
                            318.0
                                   150
                                        3436
                                              11.0
                                                        70
                                                                           plymouth satellite
              3
                  16.0
                         8
                            304.0
                                   150
                                        3433
                                               12.0
                                                        70
                                                                               amc rebel sst
              4
                  17.0
                         8
                            302.0
                                               10.5
                                                        70
                                                                 1
                                                                                 ford torino
                                   140
                                        3449
            387
                  27.0
                            140.0
                         4
                                    86
                                        2790
                                               15.6
                                                        82
                                                                 1
                                                                             ford mustang gl
                                                                 2
            388
                  44.0
                         4
                             97.0
                                    52
                                        2130
                                               24.6
                                                        82
                                                                                  vw pickup
            389
                  32.0
                            135.0
                                    84
                                        2295
                                              11.6
                                                        82
                                                                 1
                                                                            dodge rampage
            390
                  28.0
                            120.0
                                               18.6
                                                        82
                                                                                 ford ranger
                                    79
                                        2625
                  31.0
                                                        82
                                                                 1
                                                                                 chevy s-10
            391
                         4
                           119.0
                                    82
                                        2720
                                              19.4
           392 rows × 9 columns
In [15]:
             car.head()
                           disp
Out[15]:
               mpg
                     cyl
                                  hp
                                        wt
                                             acc
                                                  modyr
                                                          origin
                                                                                   name
                          307.0
                                      3504
                                             12.0
                                                               1 chevrolet chevelle malibu
               18.0
                                 130
               15.0
                       8
                                      3693
                                                                         buick skylark 320
                         350.0
                                165
                                            11.5
                                                      70
               18.0
                       8
                         318.0
                                150
                                      3436
                                            11.0
                                                      70
                                                                         plymouth satellite
                                                      70
               16.0
                          304.0
                                 150
                                      3433
                                             12.0
                                                                            amc rebel sst
                                                               1
               17.0
                       8
                         302.0
                                            10.5
                                                      70
                                                                               ford torino
                                140
                                      3449
In [19]:
             car.tail()
Out[19]:
                       cyl
                             disp
                                  hp
                                          wt
                                              acc
                                                   modyr
                                                           origin
                                                                            name
                 mpg
            387
                 27.0
                            140.0
                                   86
                                       2790
                                              15.6
                                                        82
                                                                1
                                                                   ford mustang gl
            388
                  44.0
                         4
                             97.0
                                   52
                                       2130
                                              24.6
                                                        82
                                                                2
                                                                        vw pickup
                  32.0
            389
                            135.0
                                   84
                                       2295
                                              11.6
                                                        82
                                                                   dodge rampage
            390
                  28.0
                            120.0
                                   79
                                       2625
                                              18.6
                                                        82
                                                                       ford ranger
            391
                  31.0
                            119.0
                                   82
                                       2720
                                              19.4
                                                        82
                                                                       chevy s-10
In [20]:
             car.describe()
Out[20]:
                          mpg
                                       cyl
                                                  disp
                                                                hp
                                                                              wt
                                                                                          acc
                                                                                                   modyr
                                                                                                                 origin
                   392.000000
                                392.000000
                                            392.000000
                                                        392.000000
                                                                      392.000000
                                                                                  392.000000
                                                                                               392.000000
                                                                                                           392.000000
            count
                                                                                                              1.576531
            mean
                    23.445918
                                  5.471939
                                            194.411990
                                                         104.469388
                                                                     2977.584184
                                                                                    15.541327
                                                                                                75.979592
              std
                     7.805007
                                  1.705783
                                            104.644004
                                                          38.491160
                                                                      849.402560
                                                                                     2.758864
                                                                                                 3.683737
                                                                                                              0.805518
                     9.000000
                                  3.000000
                                                                     1613.000000
                                                                                     8.000000
                                                                                                70.000000
                                                                                                              1.000000
             min
                                             68.000000
                                                          46.000000
                    17.000000
                                                                                                              1.000000
             25%
                                  4.000000
                                            105.000000
                                                          75.000000
                                                                     2225.250000
                                                                                    13.775000
                                                                                                73.000000
             50%
                    22.750000
                                  4.000000
                                            151.000000
                                                          93.500000
                                                                     2803.500000
                                                                                    15.500000
                                                                                                76.000000
                                                                                                              1.000000
                    29.000000
             75%
                                  8.000000
                                            275.750000
                                                         126.000000
                                                                     3614.750000
                                                                                    17.025000
                                                                                                79.000000
                                                                                                              2.000000
```

3.000000

46.600000

8.000000 455.000000

230.000000 5140.000000

24.800000

82.000000

max

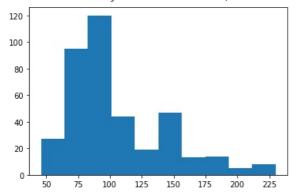
```
In [21]:
          car.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 392 entries, 0 to 391
         Data columns (total 9 columns):
              Column Non-Null Count Dtype
          0
                       392 non-null
                                        float64
              mpg
              cyl
                       392 non-null
                                       int64
          1
          2
              disp
                       392 non-null
                                        float64
                       392 non-null
                                       int64
          3
              hp
              wt
                       392 non-null
                                        int64
                       392 non-null
                                       float64
          5
              acc
              modyr
                       392 non-null
                                       int64
              origin 392 non-null
          7
                                       int64
          8
              name
                       392 non-null
                                       object
         dtypes: float64(3), int64(5), object(1)
         memory usage: 27.7+ KB
In [29]:
          car.isnull().sum()
Out[29]: mpg
                    0
          cyl
                    0
                    0
         disp
                    0
         hp
         wt
                    0
                    0
         acc
         modyr
         origin
                    0
         name
                    0
         dtype: int64
In [30]:
          import matplotlib.pyplot as plt
          import seaborn as sns
In [33]:
          carmilage = sns.load_dataset("mpg")
In [40]:
          sns.countplot(x="mpg", data=carmileage, palette=['red', 'green', 'blue'])
Out[40]: <AxesSubplot:xlabel='mpg', ylabel='count'>
           20.0
           17.5
           15.0
           12.5
          10.0
            7.5
            5.0
            2.5
In [51]:
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sns
In [53]:
          car.head()
Out[53]:
                                    acc modyr origin
                                                                   name
                  8 307.0 130 3504 12.0
                                                  1 chevrolet chevelle malibu
          0 18.0
```

```
1 15.0 8 350.0 165 3693 11.5
                                                       buick skylark 320
                                                       plymouth satellite
  18.0
         8 318.0 150 3436 11.0
                                      70
                                              1
  16.0
         8 304.0 150 3433 12.0
                                       70
                                                           amc rebel sst
         8 302.0 140 3449 10.5
                                                             ford torino
```

```
In [54]:
          plt.hist(car['hp'])
```

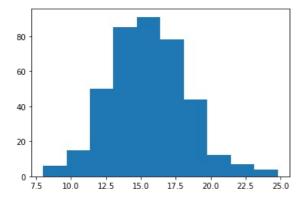
Out[54]: (array([27., 95., 120., 44., 19., 47., 13., 14., 5., 8.]), array([46., 64.4, 82.8, 101.2, 119.6, 138., 156.4, 174.8, 193.2, 211.6, 230.]),

<BarContainer object of 10 artists>)



```
In [55]:
          plt.hist(car['acc'])
```

Out[55]: (array([6., 15., 50., 85., 91., 78., 44., 12., 7., 4.]), array([8. , 9.68, 11.36, 13.04, 14.72, 16.4 , 18.08, 19.76, 21.44, 23.12, 24.8]), <BarContainer object of 10 artists>)



```
In [61]:
          plt.pie(car['mpg'], labels=car['modyr'])
          plt.show
```

Out[61]: <function matplotlib.pyplot.show(close=None, block=None)>

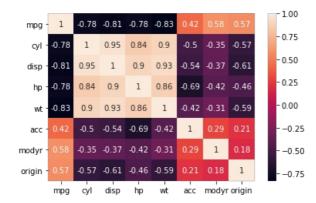


```
matrix=car.corr()
In [68]:
            car
Out[68]:
                mpg cyl
                            disp
                                  hp
                                         wt acc modyr origin
                                                                                 name
             0
                18.0
                        8 307.0
                                 130
                                      3504 12.0
                                                      70
                                                              1 chevrolet chevelle malibu
             1
                 15.0
                        8 350.0
                                 165 3693 11.5
                                                      70
                                                                        buick skylark 320
                 18.0
                        8 318.0
                                 150
                                      3436
                                            11.0
                                                      70
                                                                        plymouth satellite
             3
                 16.0
                        8 304.0
                                 150
                                      3433 12.0
                                                      70
                                                                           amc rebel sst
                17.0
                        8 302.0
                                 140
                                      3449 10.5
                                                      70
                                                              1
                                                                             ford torino
             ...
           387
                 27.0
                        4 140.0
                                  86 2790 15.6
                                                      82
                                                              1
                                                                         ford mustang gl
                                                              2
           388
                 44.0
                        4
                            97.0
                                  52 2130 24.6
                                                      82
                                                                              vw pickup
           389
                 32.0
                        4 135.0
                                      2295
                                            11.6
                                                      82
                                                                         dodge rampage
                 28.0
                          120.0
                                            18.6
                                                      82
           390
                                  79
                                      2625
                                                                             ford ranger
           391
                 31.0
                        4 119.0
                                  82 2720 19.4
                                                      82
                                                                             chevy s-10
          392 rows × 9 columns
```

In [69]: sns.heatmap(matrix, annot=True)

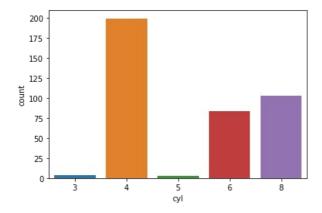
In [67]: | car=pd.read_excel('mileage_new.xls')

Out[69]: <AxesSubplot:>



```
In [71]: sns.countplot(x="cyl", data=carmileage)
```

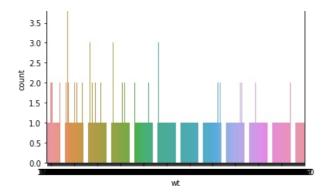
Out[71]: <AxesSubplot:xlabel='cyl', ylabel='count'>



```
In [72]:
sns.countplot(x="wt", data=carmileage)
```

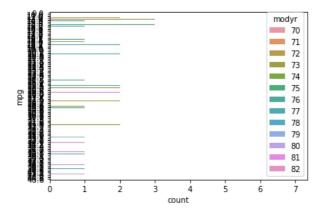
Out[72]: <AxesSubplot:xlabel='wt', ylabel='count'>

```
4.0
```



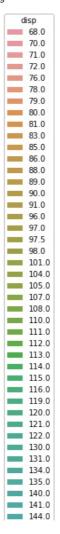
```
In [74]:
sns.countplot(y="mpg", hue="modyr", data=carmileage)
```

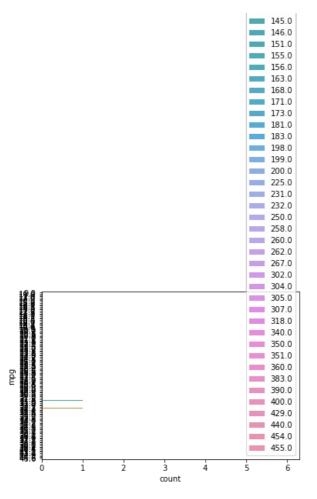
Out[74]: <AxesSubplot:xlabel='count', ylabel='mpg'>



```
In [82]:
sns.countplot(y="mpg", hue="disp", data=carmileage)
```

Out[82]: <AxesSubplot:xlabel='count', ylabel='mpg'>





Out[89]:

mpg cyl

8 350.0

0 18.0

15.0

18.0

16.0

17.0

15.0

6 14.0

disp

hp

8 307.0 130 3504 12.0

8 304.0 150 3433 12.0

8 318.0 150 3436

8 302.0 140 3449

8 429.0 198 4341

8 454.0 220 4354

165 3693

wt

11.5

11.0

10.5

10.0

acc modyr origin

70

70

70

70

70

70

70

1

1

1

```
In [83]:
          import matplotlib.pyplot as plt
In [84]:
          y=car["mpg"]
In [85]:
Out[85]: 0
                 18.0
                 15.0
          1
                 18.0
         2
         3
                 16.0
          4
                 17.0
         387
                 27.0
          388
                 44.0
          389
                 32.0
                 28.0
          390
         391
                 31.0
         Name: mpg, Length: 392, dtype: float64
In [88]:
          x=car.loc[ :40]
In [89]:
```

chevrolet chevelle malibu

buick skylark 320

plymouth satellite

amc rebel sst

ford galaxie 500

chevrolet impala

ford torino

					–		-		h.)	
8	14.0	8	455.0	225	4425	10.0	70	1	pontiac catalina	
9	15.0	8	390.0	190	3850	8.5	70	1	amc ambassador dpl	
10	15.0	8	383.0	170	3563	10.0	70	1	dodge challenger se	
11	14.0	8	340.0	160	3609	8.0	70	1	plymouth 'cuda 340	
12	15.0	8	400.0	150	3761	9.5	70	1	chevrolet monte carlo	
13	14.0	8	455.0	225	3086	10.0	70	1	buick estate wagon (sw)	
14	24.0	4	113.0	95	2372	15.0	70	3	toyota corona mark ii	
15	22.0	6	198.0	95	2833	15.5	70	1	plymouth duster	
16	18.0	6	199.0	97	2774	15.5	70	1	amc hornet	
17	21.0	6	200.0	85	2587	16.0	70	1	ford maverick	
18	27.0	4	97.0	88	2130	14.5	70	3	datsun pl510	
19	26.0	4	97.0	46	1835	20.5	70	2	volkswagen 1131 deluxe sedan	
20	25.0	4	110.0	87	2672	17.5	70	2	peugeot 504	
21	24.0	4	107.0	90	2430	14.5	70	2	audi 100 ls	
22	25.0	4	104.0	95	2375	17.5	70	2	saab 99e	
23	26.0	4	121.0	113	2234	12.5	70	2	bmw 2002	
24	21.0	6	199.0	90	2648	15.0	70	1	amc gremlin	
25	10.0	8	360.0	215	4615	14.0	70	1	ford f250	
26	10.0	8	307.0	200	4376	15.0	70	1	chevy c20	
27	11.0	8	318.0	210	4382	13.5	70	1	dodge d200	
28	9.0	8	304.0	193	4732	18.5	70	1	hi 1200d	
29	27.0	4	97.0	88	2130	14.5	71	3	datsun pl510	
30	28.0	4	140.0	90	2264	15.5	71	1	chevrolet vega 2300	
31	25.0	4	113.0	95	2228	14.0	71	3	toyota corona	
32	19.0	6	232.0	100	2634	13.0	71	1	amc gremlin	
33	16.0	6	225.0	105	3439	15.5	71	1	plymouth satellite custom	
34	17.0	6	250.0	100	3329	15.5	71	1	chevrolet chevelle malibu	
35	19.0	6	250.0	88	3302	15.5	71	1	ford torino 500	
36	18.0	6	232.0	100	3288	15.5	71	1	amc matador	
37	14.0	8	350.0	165	4209	12.0	71	1	chevrolet impala	
38	14.0	8	400.0	175	4464	11.5	71	1	pontiac catalina brougham	
39	14.0	8	351.0	153	4154	13.5	71	1	ford galaxie 500	
40	14.0	8	318.0	150	4096	13.0	71	1	plymouth fury iii	
ca	car = [1,2,3,4,5,6,7,8,9,12,14,16,19,28,26,30,35,38,40,45,49]									
ca	r									

plymouth fury iii

7 14.0 8 440.0 215 4312 8.5 70

In [90]:

30

```
20 -
```

```
In [93]:
           from sklearn.datasets import load iris
           import pandas as pd
In [94]:
           car = load_iris()
In [95]:
Out[95]: {'data': array([[5.1, 3.5, 1.4, 0.2],
                    [4.9, 3., 1.4, 0.2],
                    [4.7, 3.2, 1.3, 0.2],
                    [4.6, 3.1, 1.5, 0.2],
                    [5., 3.6, 1.4, 0.2],
[5.4, 3.9, 1.7, 0.4],
                    [4.6, 3.4, 1.4, 0.3],
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                    [4.8, 3. , 1.4, 0.1],
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                    [5.7, 4.4, 1.5, 0.4],
                    [5.4, 3.9, 1.3, 0.4],
                    [5.1, 3.5, 1.4, 0.3],
                    [5.7, 3.8, 1.7, 0.3],
                    [5.1, 3.8, 1.5, 0.3],
                    [5.4, 3.4, 1.7, 0.2],
                    [5.1, 3.7, 1.5, 0.4],
                    [4.6, 3.6, 1. , 0.2],
                    [5.1, 3.3, 1.7, 0.5],
                    [4.8, 3.4, 1.9, 0.2],
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                    [5.1, 3.8, 1.6, 0.2],
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                    [5. , 2. , 3.5, 1. ],
                    [5.9, 3., 4.2, 1.5],
```

```
[6., 2.2, 4., 1.],
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[7.1, 3. , 5.9, 2.1],
[6.3, 2.9, 5.6, 1.8],
[6.5, 3., 5.8, 2.2],
[7.6, 3., 6.6, 2.1],
[4.9, 2.5, 4.5, 1.7],
[7.3, 2.9, 6.3, 1.8],
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       :Number of Instances: 150 (50 in each of three classes)\n :Number of Attributes: 4 numeric, predictive attribu
       tes and the class\n :Attribute Information:\n - sepal length in cm\n

    sepal width in cm\n

       - petal length in cm∖n
                            - petal width in cm∖n
                                                  - class:∖n
                                                                       - Iris-Setosa∖n
       - Iris-Versicolour\n
                               - Iris-Virginica∖n
                                                           \n
                                                               :Summary Statistics:\n\n
                                                            Min Max Mean SD Class Correlation
       \n
       0.7826\n sepal width: 2.0 4.4 3.05 0.43 -0.4194\n petal length: 1.0 6.9 3.76 1.76 0.949
       asses.\n :Creator: R.A. Fisher\n :Donor: Michael Marshall (MARSHALL%PLU@io.arc.nasa.gov)\n :Date: July,
       1988\n\nThe famous Iris database, first used by Sir R.A. Fisher. The dataset is taken\nfrom Fisher\'s paper. Note
       that it\'s the same as in R, but not as in the UCI\nMachine Learning Repository, which has two wrong data points.
       \n\nThis is perhaps the best known database to be found in the\npattern recognition literature. Fisher\'s paper
       is a classic in the field and\nis referenced frequently to this day. (See Duda & Hart, for example.) The\ndata
       set contains 3 classes of 50 instances each, where each class refers to a\ntype of iris plant. One class is line
       arly separable from the other 2; the\nlatter are NOT linearly separable from each other.\n\n.. topic:: References
       \n\n - Fisher, R.A. "The use of multiple measurements in taxonomic problems"\n Annual Eugenics, 7, Part II,
       179-188 (1936); also in "Contributions to\n Mathematical Statistics" (John Wiley, NY, 1950).\n - Duda, R.O.
       , & Hart, P.E. (1973) Pattern Classification and Scene Analysis.\n (Q327.D83) John Wiley & Sons. ISBN 0-471-
       22361-1. See page 218.\n - Dasarathy, B.V. (1980) "Nosing Around the Neighborhood: A New System\n
                                                                                    Structur
       e and Classification Rule for Recognition in Partially Exposed\n Environments". IEEE Transactions on Pattern
       Analysis and Machine\n Intelligence, Vol. PAMI-2, No. 1, 67-71.\n - Gates, G.W. (1972) "The Reduced Nearest Neighbor Rule". IEEE Transactions\n on Information Theory, May 1972, 431-433.\n - See also: 1988 MLC Proce edings, 54-64. Cheeseman et al"s AUTOCLASS II\n conceptual clustering system finds 3 classes in the data.\n
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