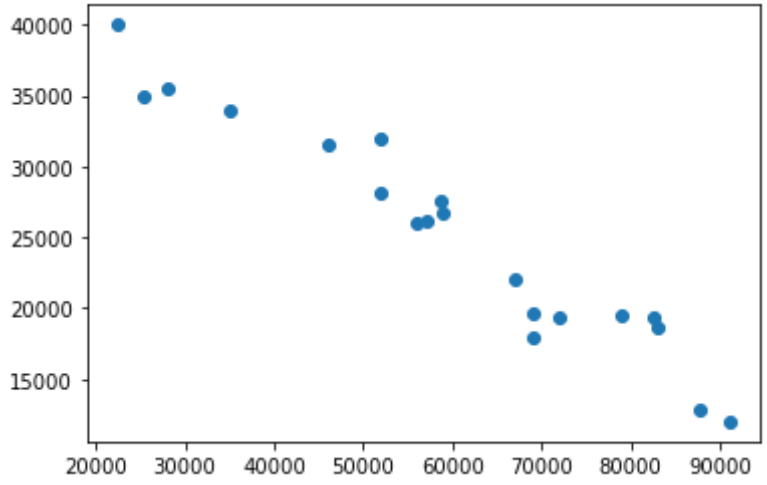
In [6]:
```
import pandas as pd
df = pd.read_csv('Book1.csv')
df.head()
```

Out[6]:

	Mileage	Age(yrs)	Sell Price($)
0	69000	6	18000
1	35000	3	34000
2	57000	5	26100
3	22500	2	40000
4	46000	4	31500

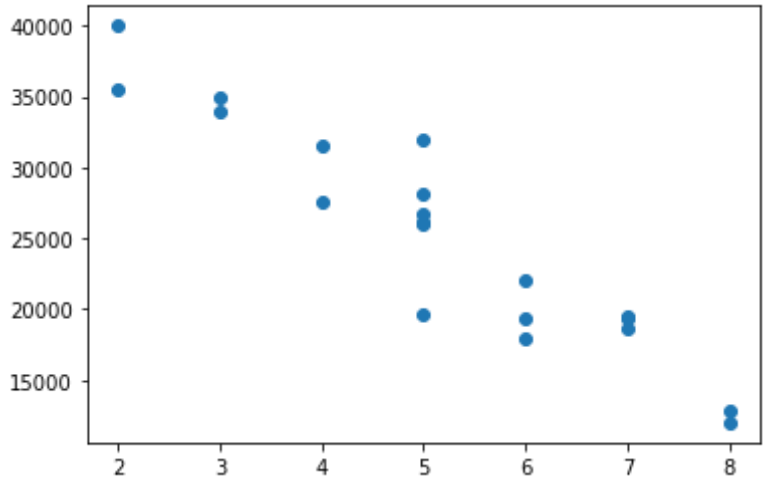
In [7]:
```
import matplotlib.pyplot as plt
%matplotlib inline
plt.scatter(df['Mileage'],df['Sell Price($)'])
```

Out[7]:
```
<matplotlib.collections.PathCollection at 0x1efc5c8ce48>
```



In [8]:
```
plt.scatter(df['Age(yrs)'],df['Sell Price($)'])
```

Out[8]:
```
<matplotlib.collections.PathCollection at 0x1efc5cfe400>
```



In [12]:
```
X= df[['Mileage','Age(yrs)']]
y=df['Sell Price($)']
X
```

Out[12]:

	Mileage	Age(yrs)
0	69000	6
1	35000	3
2	57000	5
3	22500	2
4	46000	4
5	59000	5
6	52000	5
7	72000	6
8	91000	8

	Mileage	Age(yrs)
9	67000	6
10	83000	7
11	79000	7
12	55900	5
13	58780	4
14	82450	7
15	25400	3
16	28000	2
17	69000	5
18	87600	8
19	52000	5

In [13]:
```
y
```

Out[13]:
```
0     18000
1     34000
2     26100
3     40000
4     31500
5     26750
6     32000
7     19300
8     12000
9     22000
10    18700
11    19500
12    26000
13    27500
14    19400
15    35000
16    35500
17    19700
```

```
18    12800
19    28200
Name: Sell Price($), dtype: int64
```

In [14]:
```
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X,y,test_size=0.3)
```

In [17]:
```
y_test
```

Out[17]:
```
2     26100
14    19400
1     34000
11    19500
6     32000
Name: Sell Price($), dtype: int64
```

In [26]:
```
y_train
```

Out[26]:
```
7     19300
9     22000
12    26000
19    28200
17    19700
8     12000
13    27500
3     40000
16    35500
5     26750
10    18700
18    12800
0     18000
4     31500
15    35000
Name: Sell Price($), dtype: int64
```

In [20]:
```
from sklearn.linear_model import LinearRegression
clf= LinearRegression()
clf.fit(X_train,y_train)
```

Out[20]:
```
LinearRegression()
```

In [27]:
```
X_test
```

Out[27]:

	Mileage	Age(yrs)
2	57000	5
14	82450	7
1	35000	3
11	79000	7
6	52000	5

In [28]:
```
clf.predict(X_test)
```

Out[28]:
```
array([25530.78539178, 16054.68467797, 34021.00854973, 17040.56223382,
       26959.59344373])
```

In [29]:
```
y_test
```

Out[29]:
```
2     26100
14    19400
1     34000
11    19500
6     32000
Name: Sell Price($), dtype: int64
```

In [25]:
```
clf.score(X_test,y_test)
```

Out[25]:
```
0.7685049369067152
```