

```
import pandas as pd
car = pd.read_csv
car = pd.read_csv('/content/Car Price.csv')
```

```
car.head()
```

	Brand	Model	Year	Selling_Price	KM_Driven
Fuel \					
0	Maruti	Maruti 800 AC	2007	60000	70000
1	Maruti	Maruti Wagon R LXI Minor	2007	135000	50000
2	Hyundai	Hyundai Verna 1.6 SX	2012	600000	100000
3	Datsun	Datsun RediGO T Option	2017	250000	46000
4	Honda	Honda Amaze VX i-DTEC	2014	450000	141000

	Seller_Type	Transmission	Owner
0	Individual	Manual	First Owner
1	Individual	Manual	First Owner
2	Individual	Manual	First Owner
3	Individual	Manual	First Owner
4	Individual	Manual	Second Owner

```
car
```

	Brand	Model	Year
Selling_Price \			
0	Maruti	Maruti 800 AC	2007
60000			
1	Maruti	Maruti Wagon R LXI Minor	2007
135000			
2	Hyundai	Hyundai Verna 1.6 SX	2012
600000			
3	Datsun	Datsun RediGO T Option	2017
250000			
4	Honda	Honda Amaze VX i-DTEC	2014
450000			
...
.			
4335	Hyundai	Hyundai i20 Magna 1.4 CRDi (Diesel)	2014
409999			
4336	Hyundai	Hyundai i20 Magna 1.4 CRDi	2014
409999			
4337	Maruti	Maruti 800 AC BSIII	2009
110000			
4338	Hyundai	Hyundai Creta 1.6 CRDi SX Option	2016

865000

4339 Renault

Renault KWID RXT 2016

225000

	KM_Driven	Fuel	Seller_Type	Transmission	Owner
0	70000	Petrol	Individual	Manual	First Owner
1	50000	Petrol	Individual	Manual	First Owner
2	100000	Diesel	Individual	Manual	First Owner
3	46000	Petrol	Individual	Manual	First Owner
4	141000	Diesel	Individual	Manual	Second Owner
...
4335	80000	Diesel	Individual	Manual	Second Owner
4336	80000	Diesel	Individual	Manual	Second Owner
4337	83000	Petrol	Individual	Manual	Second Owner
4338	90000	Diesel	Individual	Manual	First Owner
4339	40000	Petrol	Individual	Manual	First Owner

[4340 rows x 9 columns]

car.head(15)

	Brand	Model	Year	Selling_Price \
0	Maruti	Maruti 800 AC	2007	60000
1	Maruti	Maruti Wagon R LXI Minor	2007	135000
2	Hyundai	Hyundai Verna 1.6 SX	2012	600000
3	Datsun	Datsun RediGO T Option	2017	250000
4	Honda	Honda Amaze VX i-DTEC	2014	450000
5	Maruti	Maruti Alto LX BSIII	2007	140000
6	Hyundai	Hyundai Xcent 1.2 Kappa S	2016	550000
7	Tata	Tata Indigo Grand Petrol	2014	240000
8	Hyundai	Hyundai Creta 1.6 VTVT S	2015	850000
9	Maruti	Maruti Celerio Green VXI	2017	365000
10	Chevrolet	Chevrolet Sail 1.2 Base	2015	260000
11	Tata	Tata Indigo Grand Petrol	2014	250000
12	Toyota	Toyota Corolla Altis 1.8 VL CVT	2018	1650000
13	Maruti	Maruti 800 AC	2007	60000
14	Maruti	Maruti Wagon R LXI Minor	2007	135000

	KM_Driven	Fuel	Seller_Type	Transmission	Owner
0	70000	Petrol	Individual	Manual	First Owner
1	50000	Petrol	Individual	Manual	First Owner
2	100000	Diesel	Individual	Manual	First Owner
3	46000	Petrol	Individual	Manual	First Owner
4	141000	Diesel	Individual	Manual	Second Owner
5	125000	Petrol	Individual	Manual	First Owner
6	25000	Petrol	Individual	Manual	First Owner
7	60000	Petrol	Individual	Manual	Second Owner
8	25000	Petrol	Individual	Manual	First Owner
9	78000	CNG	Individual	Manual	First Owner
10	35000	Petrol	Individual	Manual	First Owner

11	100000	Petrol	Individual	Manual	First Owner
12	25000	Petrol	Dealer	Automatic	First Owner
13	70000	Petrol	Individual	Manual	First Owner
14	50000	Petrol	Individual	Manual	First Owner

```
car.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 4340 entries, 0 to 4339
```

```
Data columns (total 9 columns):
```

#	Column	Non-Null Count	Dtype
0	Brand	4340 non-null	object
1	Model	4340 non-null	object
2	Year	4340 non-null	int64
3	Selling_Price	4340 non-null	int64
4	KM_Driven	4340 non-null	int64
5	Fuel	4340 non-null	object
6	Seller_Type	4340 non-null	object
7	Transmission	4340 non-null	object
8	Owner	4340 non-null	object

```
dtypes: int64(3), object(6)
```

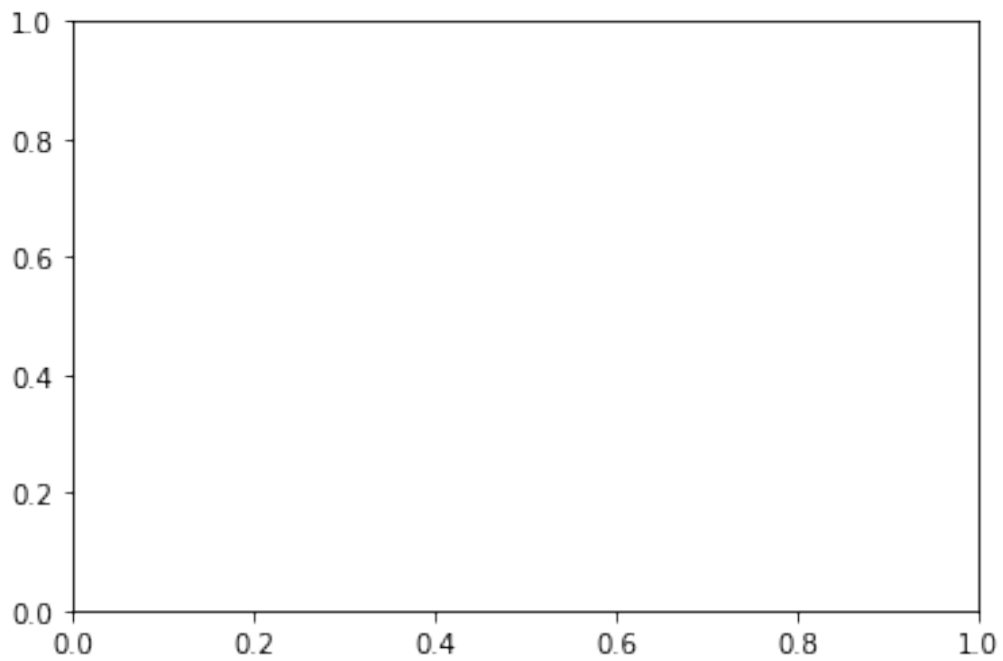
```
memory usage: 305.3+ KB
```

```
car.describe()
```

	Year	Selling_Price	KM_Driven
count	4340.000000	4.340000e+03	4340.000000
mean	2013.090783	5.041273e+05	66215.777419
std	4.215344	5.785487e+05	46644.102194
min	1992.000000	2.000000e+04	1.000000
25%	2011.000000	2.087498e+05	35000.000000
50%	2014.000000	3.500000e+05	60000.000000
75%	2016.000000	6.000000e+05	90000.000000
max	2020.000000	8.900000e+06	806599.000000

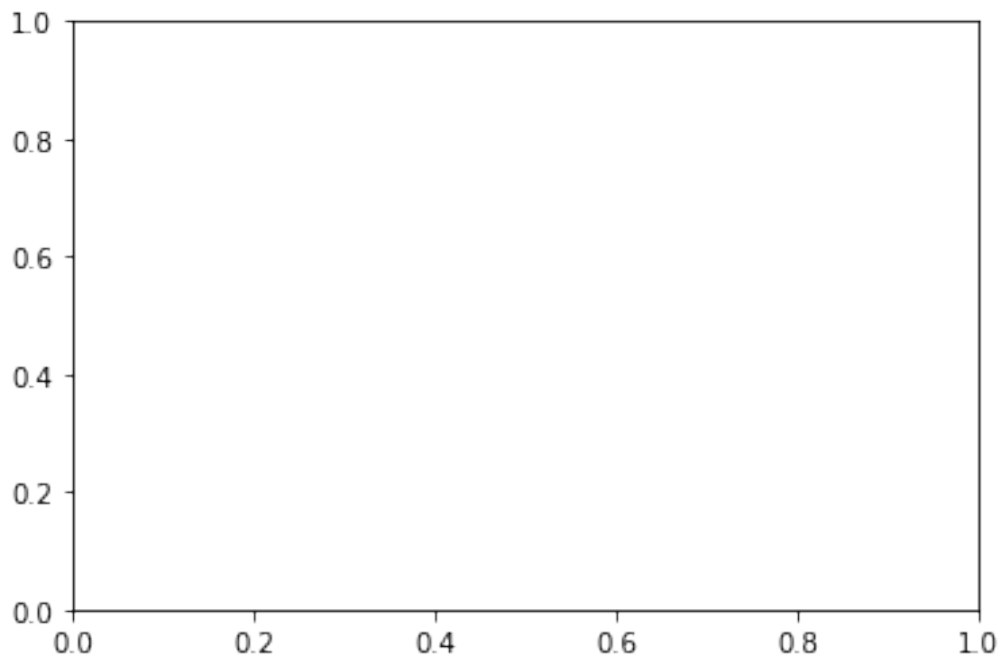
```
import matplotlib.pyplot as plt
```

```
fig , x = plt.subplots()
```

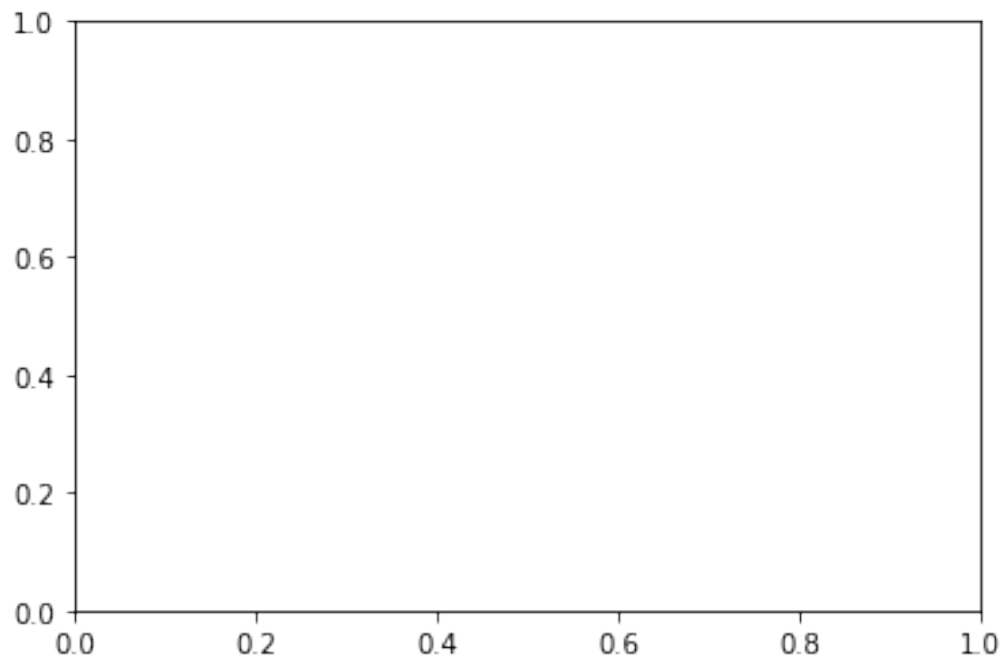


```
plt.subplots()
```

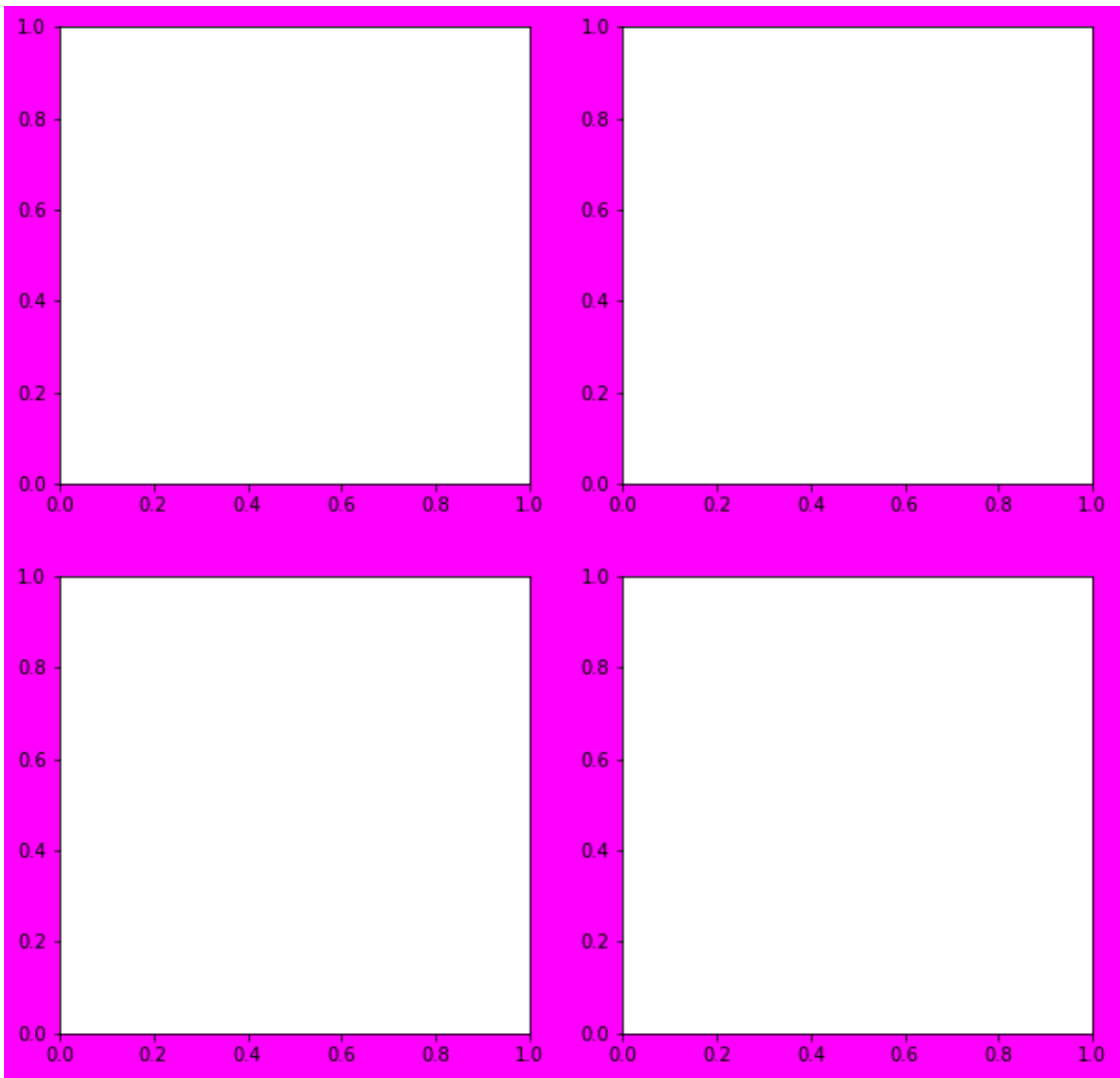
```
(<Figure size 432x288 with 1 Axes>,  
<matplotlib.axes._subplots.AxesSubplot at 0x7f290dcf8ad0>)
```



```
car = plt.subplots()
```



```
import matplotlib.pyplot as plt
import numpy as np
fig , x = plt.subplots(nrows = 2 , ncols=2 , figsize =(10,10) ,
facecolor = [1,0,1] )
```



1. `ax.plot(x ,y)` gives line chart
2. `ax.bar(x,y)` bar plot
3. `ax.barh(x,y)` bar height graph
4. `ax.scatter(x , y)` scatter graphs
5. `ax.hist(x)` histogram

6. `ax.pie(x)` pie chart

```
x = [ 2,3,4,5,6,7,8,9]
```

```
z = [1,1,2,3,4,5,6,6,7,7,8,9,9]
```

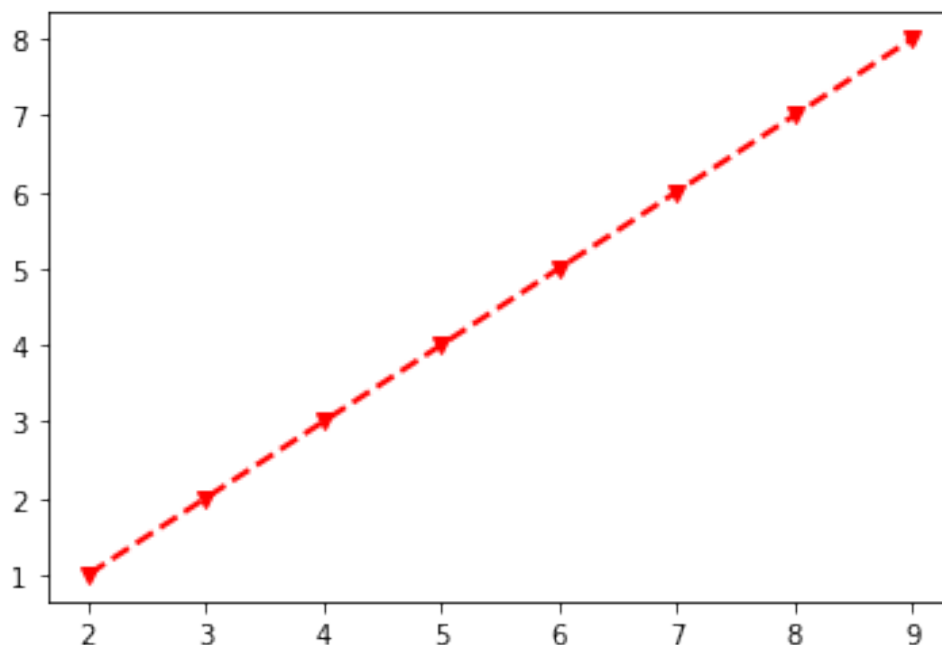
```
y = [1,2,3,4,5,6,7,8]
```

```
import matplotlib.pyplot as plt
```

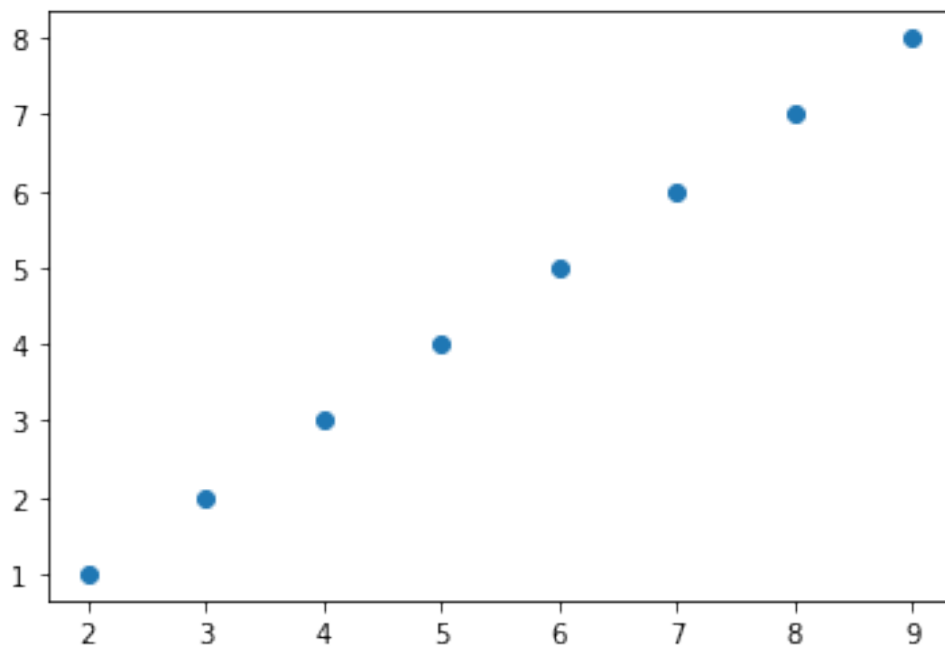
```
fig , ax = plt.subplots()
```

```
ax.plot(x,y , color = 'red' , linestyle = '--', linewidth = 2 , marker  
= 'v')
```

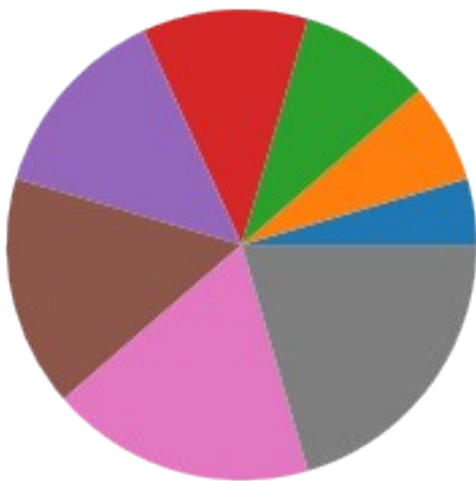
```
plt.show()
```



```
fig , ax = plt.subplots()
ax.scatter(x ,y)
plt.show()
```



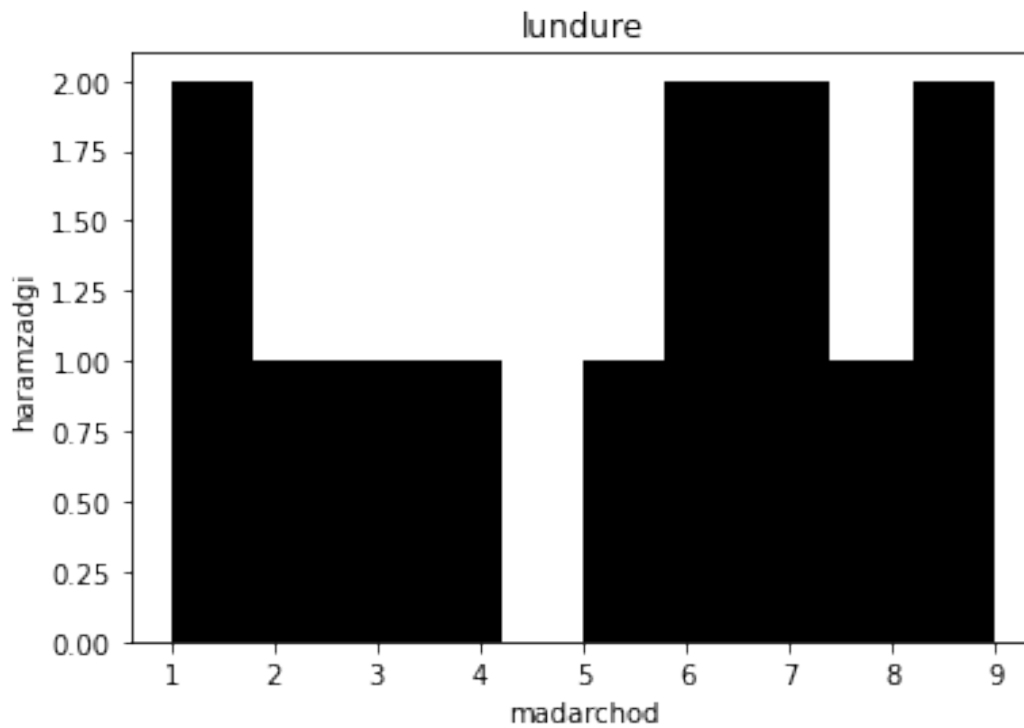
```
fig , ax = plt.subplots()
ax.pie(x)
plt.show()
```



```
fig , ax = plt.subplots()
ax.set_title('lundure')
ax.set_xlabel('madarchod')
```



```
ax.set_ylabel('haramzadgi')
ax.hist(z , color = 'black')
plt.show()
```



```
import seaborn as sns
```

```
sns.pairplot
```

```
<function seaborn.axisgrid.pairplot>
```

```
import pandas as pd
```

```
import matplotlib.pyplot as plt
```

```
import numpy as np
```

```
import seaborn as sns
```

```
salary = pd.read_csv('/content/Car Price.csv')
```

```
salary.head()
```

	Brand	Model	Year	Selling_Price	KM_Driven
Fuel \					
0	Maruti	Maruti 800 AC	2007	60000	70000
Petrol					
1	Maruti	Maruti Wagon R LXI Minor	2007	135000	50000
Petrol					
2	Hyundai	Hyundai Verna 1.6 SX	2012	600000	100000
Diesel					
3	Datsun	Datsun RediGO T Option	2017	250000	46000
Petrol					
4	Honda	Honda Amaze VX i-DTEC	2014	450000	141000

Diesel

	Seller_Type	Transmission	Owner
0	Individual	Manual	First Owner
1	Individual	Manual	First Owner
2	Individual	Manual	First Owner
3	Individual	Manual	First Owner
4	Individual	Manual	Second Owner

salary.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4340 entries, 0 to 4339
Data columns (total 9 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Brand                 4340 non-null   object
1   Model                 4340 non-null   object
2   Year                  4340 non-null   int64
3   Selling_Price         4340 non-null   int64
4   KM_Driven             4340 non-null   int64
5   Fuel                  4340 non-null   object
6   Seller_Type           4340 non-null   object
7   Transmission          4340 non-null   object
8   Owner                 4340 non-null   object
dtypes: int64(3), object(6)
memory usage: 305.3+ KB
```

salary.describe()

	Year	Selling_Price	KM_Driven
count	4340.000000	4.340000e+03	4340.000000
mean	2013.090783	5.041273e+05	66215.777419
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min	1992.000000	2.000000e+04	1.000000
25%	2011.000000	2.087498e+05	35000.000000
50%	2014.000000	3.500000e+05	60000.000000
75%	2016.000000	6.000000e+05	90000.000000
max	2020.000000	8.900000e+06	806599.000000

y = salary['Selling_Price'] *#it has only rows : it is flat that's why single bracket*

y.shape

(4340,)

x = salary[['Year']] *#double bracket cuz it has rows and columns both*

x.shape

(4340, 1)

x

```

      Year
0      2007
1      2007
2      2012
3      2017
4      2014
...
4335    2014
4336    2014
4337    2009
4338    2016
4339    2016

```

```
[4340 rows x 1 columns]
```

```
y
```

```

0      60000
1     135000
2     600000
3     250000
4     450000
...
4335    409999
4336    409999
4337     110000
4338    865000
4339    225000

```

```
Name: Selling_Price, Length: 4340, dtype: int64
```

```
# **splitting data
```

```
from sklearn.model_selection import train_test_split
```

```
x_train, x_test , y_train ,y_test=train_test_split(x, y, train_size =
0.8 , random_state = 2829)
```

```
x_train.shape, x_test.shape , y_train.shape ,y_test.shape
```

```
((3472, 1), (868, 1), (3472,), (868,))
```

creating a mode

```
from sklearn.linear_model import LinearRegression
```

```
model = LinearRegression()
```

```
model.fit(x_train ,y_train)
```

```
LinearRegression()
```

```
model.coef_  
model.intercept_
```

```
-119354298.52186507
```

```
model.coef_
```

```
array([59543.45131179])
```

```
model.intercept_
```

```
-119354298.52186507
```

```
y_pred = model.predict(x_test)
```

```
y_pred
```

```
array([ 804386.22533205, 566212.42008488, 268495.16352592,  
        685299.32270847, 447125.5174613 , 447125.5174613 ,  
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        328038.61483771, 149408.26090233, 447125.5174613 ,  
        268495.16352592, 506668.9687731 , 744842.77402025,  
        -88765.54434483, 447125.5174613 , 447125.5174613 ,  
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        863929.67664385, 328038.61483771, 744842.77402025,  
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```

268495.16352592,	744842.77402025,	447125.5174613 ,
744842.77402025,	744842.77402025,	685299.32270847,
506668.9687731 ,	89864.80959055,	506668.9687731 ,
328038.61483771,	447125.5174613 ,	625755.87139668,
-207852.44696842,	566212.42008488,	625755.87139668,
208951.71221413,	625755.87139668,	863929.67664385,
328038.61483771,	328038.61483771,	328038.61483771,
685299.32270847,	566212.42008488,	89864.80959055,
506668.9687731 ,	863929.67664385,	744842.77402025,
506668.9687731 ,	804386.22533205,	744842.77402025,
863929.67664385,	89864.80959055,	566212.42008488,
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685299.32270847,	328038.61483771,	268495.16352592,
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506668.9687731 ,	506668.9687731 ,	208951.71221413,
625755.87139668,	566212.42008488,	506668.9687731 ,
804386.22533205,	744842.77402025,	447125.5174613 ,
447125.5174613 ,	328038.61483771,	506668.9687731 ,
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506668.9687731 ,	863929.67664385,	685299.32270847,
685299.32270847,	387582.0661495 ,	268495.16352592,
625755.87139668,	863929.67664385,	447125.5174613 ,
566212.42008488,	744842.77402025,	625755.87139668,
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685299.32270847,	89864.80959055,	744842.77402025,
447125.5174613 ,	208951.71221413,	208951.71221413,
268495.16352592,	506668.9687731 ,	566212.42008488,
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-386482.8009038 ,	447125.5174613 ,	447125.5174613 ,
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923473.12795563])
```

```
from sklearn.metrics import mean_absolute_percentage_error
```

```
mean_absolute_percentage_error(y_test , y_pred)
```

```
0.8815038722879809
```

```
import pandas as pd
```

```
import seaborn as sns
```

```
car = pd.read_csv('/content/Car Price.csv')
```

```
car.describe()
```

	Year	Selling_Price	KM_Driven
count	4340.000000	4.340000e+03	4340.000000
mean	2013.090783	5.041273e+05	66215.777419
std	4.215344	5.785487e+05	46644.102194
min	1992.000000	2.000000e+04	1.000000
25%	2011.000000	2.087498e+05	35000.000000
50%	2014.000000	3.500000e+05	60000.000000
75%	2016.000000	6.000000e+05	90000.000000
max	2020.000000	8.900000e+06	806599.000000