```
import pandas as pd
data = pd.read_csv("Housing.csv")
print("Type of data is",type(data))
data
```

```
Type of data is <class 'pandas.core.frame.DataFrame'>
```

	price	lotsize	bedrooms	bathrms	stories	driveway	recroom	fullbase	gash
0	42000.0	5850	3	1	two	yes	no	yes	n
1	38500.0	4000	2	1	one	yes	no	no	n
2	49500.0	3060	3	1	one	yes	no	no	n
3	60500.0	6650	3	1	two	yes	yes	no	n
4	61000.0	6360	2	1	one	yes	no	no	n
...	...	...	...	...	...	...	...	...	.
541	91500.0	4800	3	2	four	yes	yes	no	n
542	94000.0	6000	3	2	four	yes	no	no	n
543	103000.0	6000	3	2	four	yes	yes	no	n
544	105000.0	6000	3	2	two	yes	yes	no	n
545	105000.0	6000	3	1	two	yes	no	no	n

546 rows × 12 columns

```
print(data.shape)
```

```
(546, 12)
```

```
data.head(5)
```

	price	lotsize	bedrooms	bathrms	stories	driveway	recroom	fullbase	gashw
0	42000.0	5850	3	1	two	yes	no	yes	no
1	38500.0	4000	2	1	one	yes	no	no	no
2	49500.0	3060	3	1	one	yes	no	no	no
3	60500.0	6650	3	1	two	yes	yes	no	no
4	61000.0	6360	2	1	one	yes	no	no	no

```
data.tail(5)
```

	price	lotsize	bedrooms	bathrms	stories	driveway	recroom	fullbase	gash
541	91500.0	4800	3	2	four	yes	yes	no	n

```
data['price'][3]
```

```
60500.0
```

```
data.columns
```

```
Index(['price', 'lotsize', 'bedrooms', 'bathrms', 'stories', 'driveway',
       'recroom', 'fullbase', 'gashw', 'airco', 'garagepl', 'prefarea'],
      dtype='object')
```

```
data[data.columns]
```

	price	lotsize	bedrooms	bathrms	stories	driveway	recroom	fullbase	gash
0	42000.0	5850	3	1	two	yes	no	yes	n
1	38500.0	4000	2	1	one	yes	no	no	n
2	49500.0	3060	3	1	one	yes	no	no	n
3	60500.0	6650	3	1	two	yes	yes	no	n
4	61000.0	6360	2	1	one	yes	no	no	n
...	...	...	...	...	...	...	...	...	.
541	91500.0	4800	3	2	four	yes	yes	no	n
542	94000.0	6000	3	2	four	yes	no	no	n
543	103000.0	6000	3	2	four	yes	yes	no	n
544	105000.0	6000	3	2	two	yes	yes	no	n
545	105000.0	6000	3	1	two	yes	no	no	n

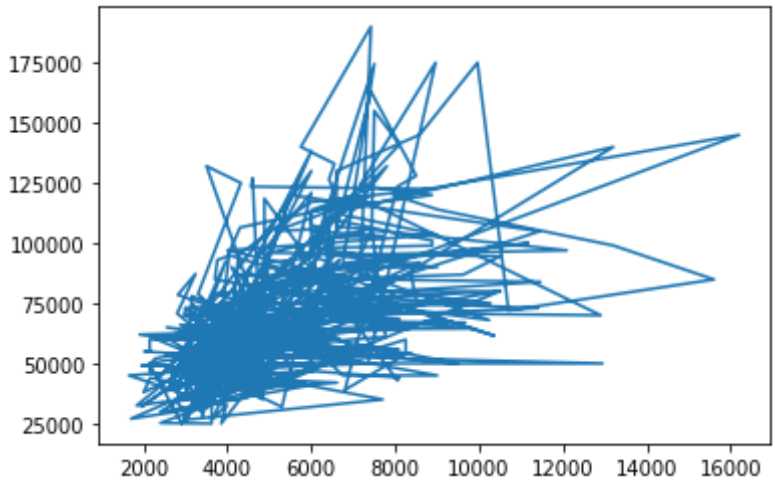
546 rows × 12 columns

```
data[['price','lotsize']]
```

	price	lotsize
0	42000.0	5850
1	38500.0	4000
2	49500.0	3060
3	60500.0	6650

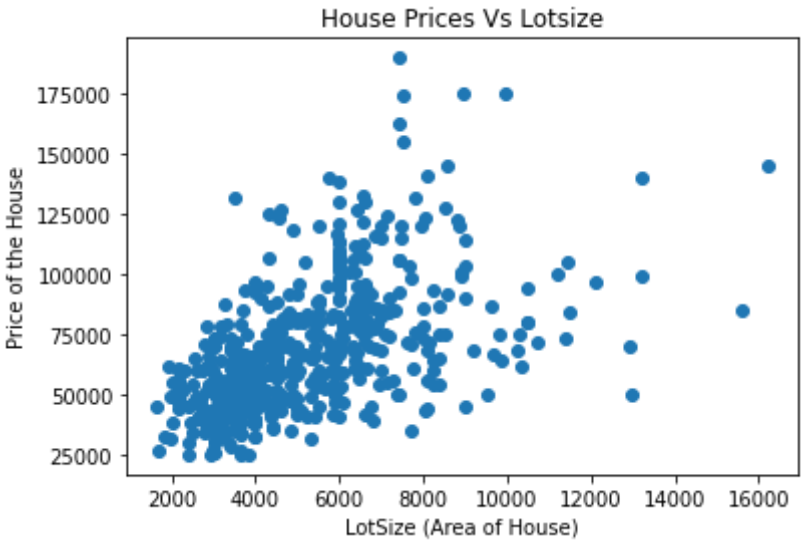
```
#what happn in data?
import matplotlib.pyplot as plt
plt.plot(data['lotsize'],data['price'])
```

```
[<matplotlib.lines.Line2D at 0x7fca0a358b38>]
```




```
#what happn in data?
import matplotlib.pyplot as plt
plt.scatter(data['lotsize'],data['price'])
plt.xlabel("LotSize (Area of House)")
plt.ylabel("Price of the House")
plt.title("House Prices Vs Lotsize")
```

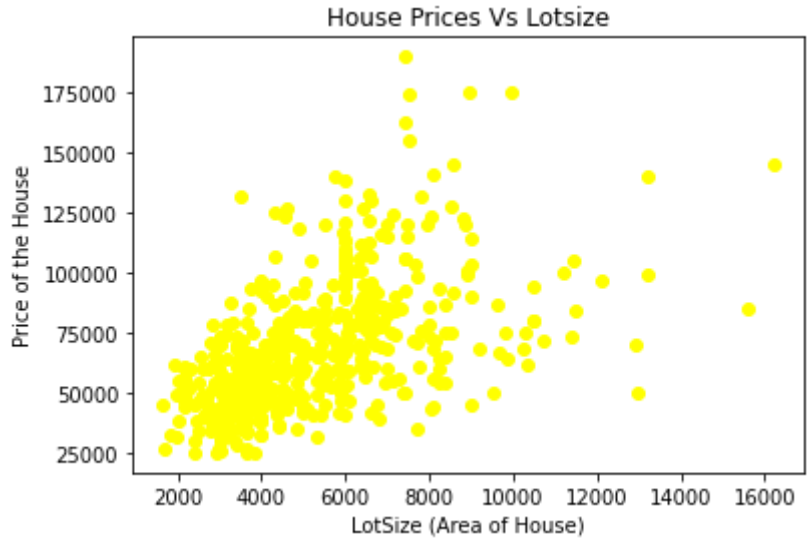
```
Text(0.5, 1.0, 'House Prices Vs Lotsize')
```




```
#what happn in data?
import matplotlib.pyplot as plt
plt.scatter(data['lotsize'],data['price'],color="yellow")
```

```
plt.xlabel("LotSize (Area of House)")
plt.ylabel("Price of the House")
plt.title("House Prices Vs Lotsize")
```

```
Text(0.5, 1.0, 'House Prices Vs Lotsize')
```




```
#Why did it happen?
data.corr()
```

	price	lotsize	bedrooms	bathrms	garagepl
price	1.000000	0.535796	0.366447	0.516719	0.383302
lotsize	0.535796	1.000000	0.151851	0.193833	0.352872
bedrooms	0.366447	0.151851	1.000000	0.373769	0.139117
bathrms	0.516719	0.193833	0.373769	1.000000	0.178178
garagepl	0.383302	0.352872	0.139117	0.178178	1.000000