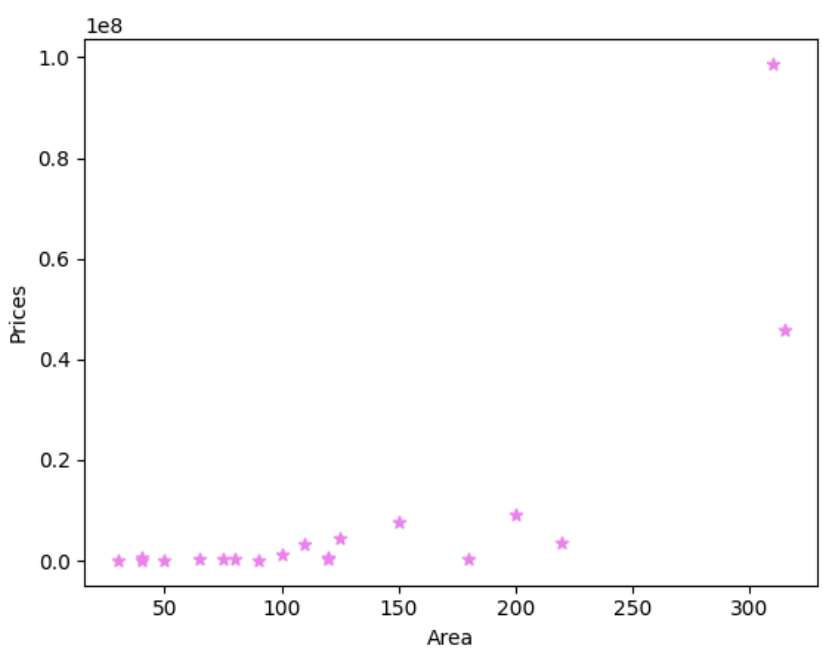
```
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.linear_model import LinearRegression


ds = pd.read_csv('Linearregression.csv')


print(ds.shape)
print(ds.head(5))
```

```
(19, 2)
   Area  Prices
0    40  458000
1   120  674200
2    80  145600
3    75  345600
4    40   12450
```

```
plt.xlabel('Area')
plt.ylabel('Prices')
plt.scatter(ds.Area,ds.Prices,color='violet',marker='*')
plt.show()
```




```
x=ds.drop('Prices',axis='columns')
y=ds.Prices
x
y
```

	Prices
0	458000
1	674200
2	145600
3	345600
4	12450
5	7534000
6	9075000
7	4538900
8	3245000

```
model = LinearRegression()
model.fit(x,y)
```

```
LinearRegression()
```

```
x = 1120
LandAreainSqFt=[[x]]
predictedmodelresult=model.predict(LandAreainSqFt)
print(predictedmodelresult)
```

```
[2.23165279e+08]
/usr/local/lib/python3.11/dist-packages/sklearn/utils/validation.py:2739: UserWarning: X does not have valid feature n
  warnings.warn(
```

```
m=model.coef_
print(m)
```

```
[215482.54946491]
```

```
b=model.intercept_
print(b)
```

```
-18175176.30026754
```

```
y=m*x+b
print("Price of {0} square feed land is:{1}".format(x,y[0]))
```

```
Price of 1120 square feed land is:223165279.1004322
```