```
%matplotlib inline
from IPython.display import HTML
from numpy import *
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
import seaborn as sns
```

```
from pydrive.auth import GoogleAuth
from pydrive.drive import GoogleDrive
from google.colab import auth
from oauth2client.client import GoogleCredentials
```

```
auth.authenticate_user()
gauth = GoogleAuth()
gauth.credentials = GoogleCredentials.get_application_default()
drive = GoogleDrive(gauth)
```

```
link = 'https://drive.google.com/file/d/1yiftzAdby-kwi3F31DckT5lPedjeYWoX/
view?usp=sharing'
import pandas as pd
id = link.split("/")[-2]
downloaded = drive.CreateFile({'id':id})
downloaded.GetContentFile('homeprices2.csv')
df = pd.read_csv('homeprices2.csv')
print(df)
```

```
%matplotlib inline
plt.xlabel('area')
plt.ylabel('price')
plt.scatter(df.area,df.price,color='red',marker='+')
```

```
new_df = df.drop('price',axis='columns')
new_df
```

```
price = df.price
price
```

```
import pandas as pd
```

```
import numpy as np
from sklearn import linear_model
import matplotlib.pyplot as plt


model = linear_model.LinearRegression()
model.fit(new_df,df.price)


model.predict([[3300]])


model.predict([[9000]])


model.intercept_


model.coef_


link = 'https://drive.google.com/file/d/1NSu7UG7Rww7pLMfm8AKCQY3SBJzdrnWX/
view?usp=sharing'
import pandas as pd
id = link.split("/")[-2]
downloaded = drive.CreateFile({'id':id})
downloaded.GetContentFile('area.csv')
area_df = pd.read_csv('area.csv')
print(area_df)


p=model.predict(area_df)
print(p)


area_df['prices']=p
area_df


area_df.to_csv("prediction.csv")
```