```
import pandas as pd
import numpy as np
import seaborn as s
from sklearn import linear_model
import matplotlib.pyplot as plt
```

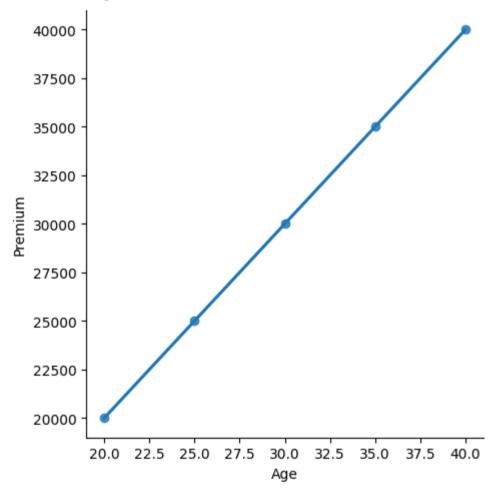
df=pd.read_csv('/content/Book1.csv')

df

	Age	Premium	
0	20	20000	ıl.
1	25	25000	
2	30	30000	
3	35	35000	
4	40	40000	

s.lmplot(x='Age',y='Premium',data=df)

<seaborn.axisgrid.FacetGrid at 0x7e527042fc10>



plt.scatter(df.Age,df.Premium,color='red')

<matplotlib.collections.PathCollection at 0x7e526d8be050> model=linear_model.LinearRegression() model.fit(df[['Age']],df[['Premium']]) ▼ LinearRegression LinearRegression() model.predict([[50]]) /usr/local/lib/python3.10/dist-packages/sklearn/base.py:439: UserWarning: X does not have valid feature names, but LinearRegress warnings.warn(array([[50000.]]) 22500 model.coef_ array([[1000.]]) model.intercept_ array([3.63797881e-12]) #y=mx+c1000*50+3.63797881e-12 ightharpoons50000.00000000001 plt.show()