```
In [3]: import matplotlib.pyplot as plt
import pandas as pd
import numpy as np

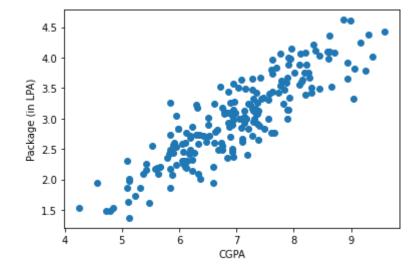
df=pd.read_csv('placement-1.csv')
df.head()
```

Out[3]:

	cgpa	раскаде
0	6.89	3.26
1	5.12	1.98
2	7.82	3.25
3	7.42	3.67
4	6.94	3.57

```
In [4]: plt.scatter(df['cgpa'],df['package'])
   plt.xlabel('CGPA')
   plt.ylabel('Package (in LPA)')
```

Out[4]: Text(0, 0.5, 'Package (in LPA)')



```
In [75]: x=df.iloc[:,0:1]
y=df.iloc[:,-1]
```

In [76]: from sklearn.model_selection import train_test_split
 x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,rand)

Out[77]:

✓ LinearRegression

LinearRegression()

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```
In [78]: lr.predict(x test.iloc[0].values.reshape(1,1))
         /home/sl/.local/lib/python3.8/site-packages/sklearn/base.py:464: Us
         erWarning: X does not have valid feature names, but LinearRegressio
         n was fitted with feature names
           warnings.warn(
Out[78]: array([3.89111601])
In [79]: |plt.scatter(df['cgpa'],df['package'])
         plt.plot(x_train,lr.predict(x_train),color='red')
         plt.xlabel('CGPA')
         plt.ylabel('Package')
Out[79]: Text(0, 0.5, 'Package')
            4.5
            4.0
            3.5
            3.0
            2.5
            2.0
            1.5
                             6
                                  CGPA
In [80]: m=lr.coef
In [81]: m
Out[81]: array([0.55795197])
In [82]: b=lr.intercept
Out[82]: -0.8961119222429144
In [85]: y=m*8.58+b
Out[85]: array([3.89111601])
 In [ ]:
```

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