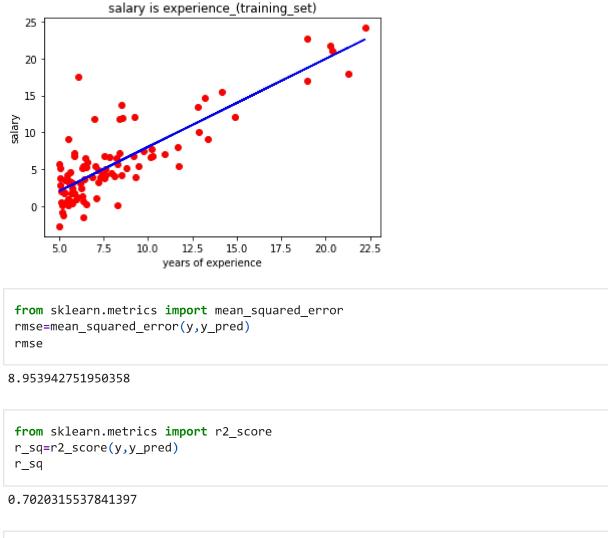
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```
In [5]:
          import numpy as np
          from matplotlib import pyplot as plt
          import pandas as pd
          from sklearn.model_selection import train_test_split
          from sklearn.linear_model import LinearRegression
          data=pd.read csv("book.txt")
          print(data.shape)
          (97, 2)
 In [7]:
          x=data[['population']].values
          y=data[['profit']].values
          %matplotlib inline
          plt.scatter(x,y,c='r',label='scatter_data')
          plt.xlabel("population")
          plt.ylabel("profit")
          plt.title('food truck profit graph')
          plt.grid(True,color='k')
                             food truck profit graph
            25
            20
            15
          텔
10
             5
                      7.5
                            10.0
                                   12.5
                                         15.0
                                                17.5
                                                             22.5
                5.0
                                                       20.0
                                   population
 In [8]:
          k=LinearRegression()
          k.fit(x,y)
          LinearRegression()
Out[8]:
 In [9]:
          print("c value:",k.intercept )
          c value: [-3.89578088]
In [10]:
          print("\n value",k.coef )
          value [[1.19303364]]
In [13]:
          y pred=k.predict(x)
          plt.scatter(x,y,color='red')
          plt.plot(x,y_pred,color='blue')
          plt.title("salary is experience_(training_set)")
          plt.xlabel("years of experience")
          plt.ylabel("salary")
          plt.show()
```

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In [14]:

Out[14]:

In [16]: