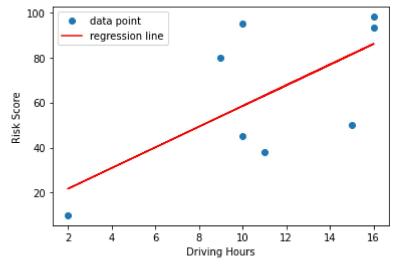
```
import numpy as np
In [63]:
          import matplotlib.pyplot as plt
          import pandas as pd
          from sklearn.linear_model import LinearRegression
          from sklearn.metrics import confusion_matrix
         dataset = pd.read_csv("linear_regression_dataset.csv")
In [64]:
In [65]: x = dataset.iloc[:,:-1].values
          y = dataset.iloc[:,1].values
In [66]:
         array([[10],
Out[66]:
                 [ 9],
                 [2],
                 [15],
                 [10],
                 [16],
                 \lceil 11 \rceil,
                [16]], dtype=int64)
          regressor = LinearRegression()
In [67]:
          regressor.fit(x,y)
In [68]:
         LinearRegression()
Out[68]:
In [69]:
         print("Coefficient : ",regressor.coef_)
          print("intercept : ",regressor.intercept )
          accuracy = regressor.score(x,y)*100
          print("Accuracy : ",accuracy)
          y_pred = regressor.predict([[8]])
          print(y_pred)
         Coefficient: [4.58789861]
         intercept: 12.584627964022907
         Accuracy: 43.709481451010035
         [49.28781684]
         hours = int(input("Enter the no of hours : "))
In [83]:
          predicted value = regressor.predict([[hours]])
          print(predicted_value)
         Enter the no of hours : 2
         [21.76042518]
         plt.plot(x,y,'o', label="data point")
In [71]:
          plt.plot(x,regressor.predict(x), color='#ff0000', label='regression l
          # x-axis Label
```

```
plt.xlabel('Driving Hours')

#y-axis Label
plt.ylabel('Risk Score')

plt.legend()
plt.show()
```



```
In [72]: ypr=regressor.predict(x)

In [82]: ypr
Out[82]: array([58.46361406, 53.87571545, 21.76042518, 81.40310711, 58.463614 06, 85.99100572, 63.05151267, 85.99100572])

In []:
```