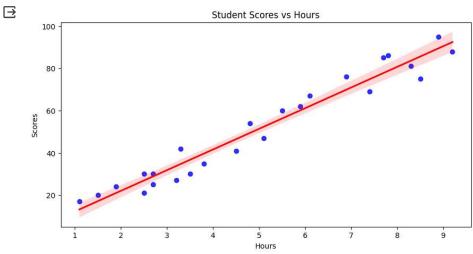
```
import pandas as pd
import numpy as np
{\tt import\ matplotlib.pyplot\ as\ plt}
import seaborn as sns
from sklearn.linear_model import LinearRegression
x = df['Hours'].values.reshape(-1, 1)
y = df['Scores'].values.reshape(-1, 1)
model = LinearRegression()
                          #model creation
model.fit(x, y) # fit the data in model
     ▼ LinearRegression
     LinearRegression()
print('Coefficients:', model.coef_)
    Coefficients: [[9.77580339]]
print('Intercept:', model.intercept_)
    Intercept: [2.48367341]
plt.figure(figsize=(10, 5))
sns.regplot(x=x, y=y, scatter_kws={'color':'blue'}, line_kws={'color':'red'})
plt.xlabel('Hours')
plt.ylabel('Scores')
plt.title('Student Scores vs Hours')
plt.show() # ploting data in regression model
```



```
predicted_scores = model.predict(np.array([[5], [10], [15]]))
print('Predicted scores:', predicted_scores) # score prediction

Predicted scores: [[ 51.36269036]
      [100.24170731]
      [149.12072427]]
```