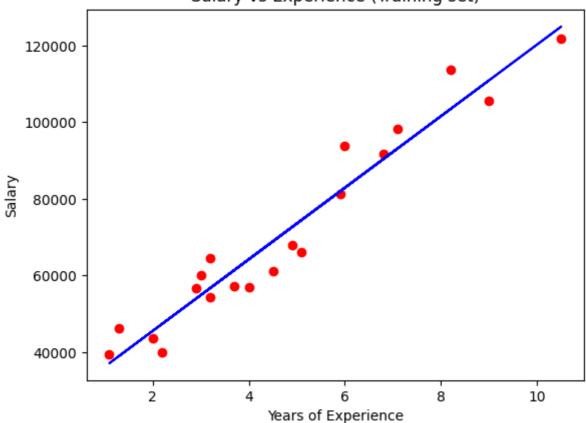
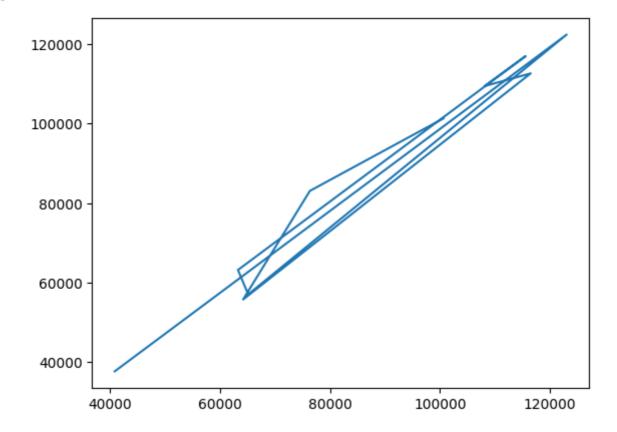
```
In [10]:
          import numpy as np
 In [9]:
          import matplotlib.pyplot as plt
 In [7]:
          import pandas as pd
In [22]:
          from sklearn.metrics import f1_score,r2_score, precision_score, recall_score, confus
In [26]:
          dataset = pd.read_csv("D:\\ML Lab\\Regression\\Simple Linear Regression\\Salary_Data
          X = dataset.iloc[:, :-1].values
          y = dataset.iloc[:, 1].values
In [13]:
          from sklearn.model_selection import train_test_split
          X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 1/3, random_st
In [14]:
          from sklearn.linear_model import LinearRegression
          regressor = LinearRegression()
          regressor.fit(X_train, y_train)
Out[14]:
         ▼ LinearRegression
         LinearRegression()
In [15]:
          y_pred = regressor.predict(X_test)
In [16]:
          plt.scatter(X_train, y_train, color = 'red')
          plt.plot(X_train, regressor.predict(X_train), color = 'blue')
          plt.title('Salary vs Experience (Training set)')
          plt.xlabel('Years of Experience')
          plt.ylabel('Salary')
          plt.show()
```





```
In [17]: plt.plot(y_pred, y_test)
```

Out[17]: [<matplotlib.lines.Line2D at 0x1983ca473a0>]



```
In [18]:
    plt.scatter(X_test, y_test, color = 'red')
    plt.plot(X_train, regressor.predict(X_train), color = 'blue')
    plt.title('Salary vs Experience (Test set)')
```

```
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
plt.show()
```



Mean Squared Error: 21026037.329511296

R2 Score: 0.9749154407708353