Importing Libraries

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

Importing the Dataset

```
dataset = pd.read_csv('Salary_Data.csv')
X = dataset.iloc[:, :-1].values
y = dataset.iloc[:, -1].values
```

Splitting the Dataset into Training and Testing dataset

```
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_state = 0)
```

Training the Simple Linear Regression Model on Training Dataset

```
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train, y_train)
```

```
▾ LinearRegression
LinearRegression()
```

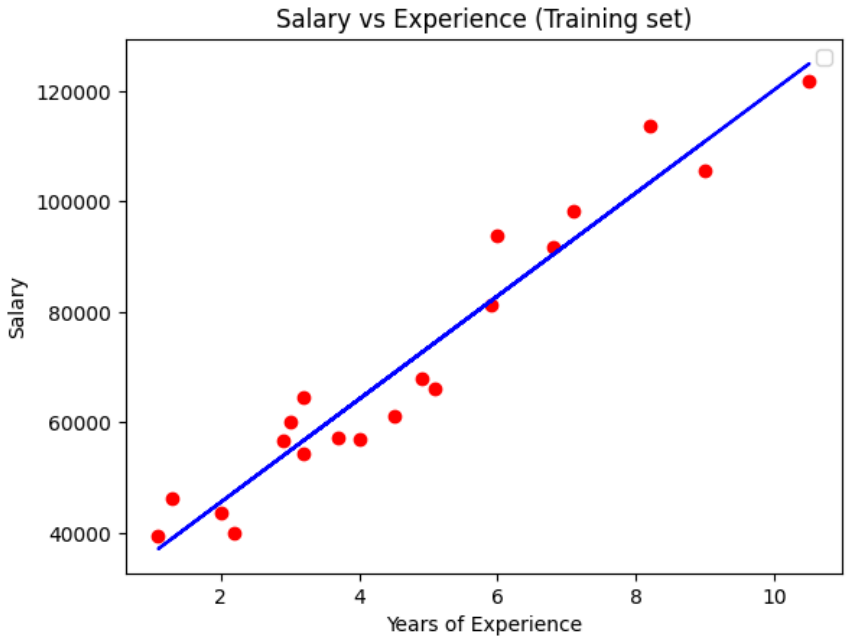
Predicting the Test set Results

```
y_pred = regressor.predict(X_test)
```

Visualizing the Training set Results

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

```
<ipython-input-7-a8870280586a>:6: UserWarning: No artists with labels found to put in legend.  Note that artists whose label start with an underscore are ignored when l
  plt.legend()
```



Visualizing the Test set results

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

```
<ipython-input-8-7655ce21526f>:6: UserWarning: No artists with labels found to put in legend.  Note that artists whose label start with an underscore are ignored when l
  plt.legend()
```