In [1]:
```
import pandas as pd
```

In [2]:
```
dataset = pd.read_csv('Salary_Data.csv')
```

In [3]:
```
X = dataset.iloc[:, :-1].values
y = dataset.iloc[:,1].values
```

In [4]:
```
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)
```

In [5]:
```
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train, y_train)
```

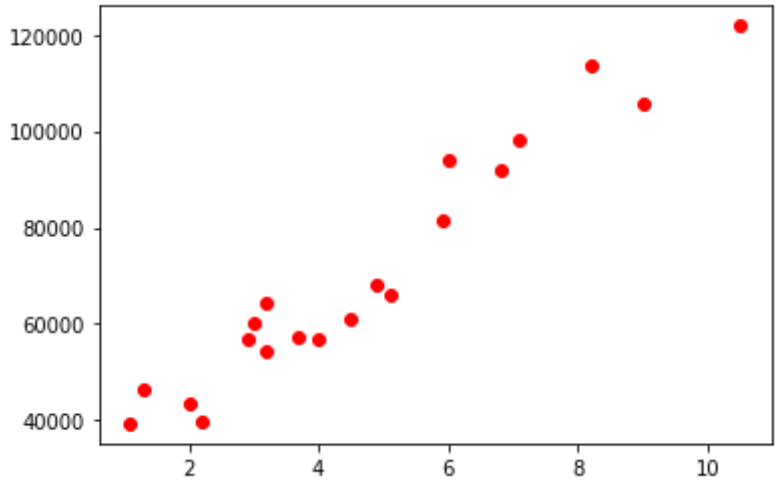
Out[5]:
```
LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normaliz
e=False)
```

In [6]:
```
y_pred = regressor.predict(X_test)
```

In [7]:
```
import matplotlib.pyplot as plt
```

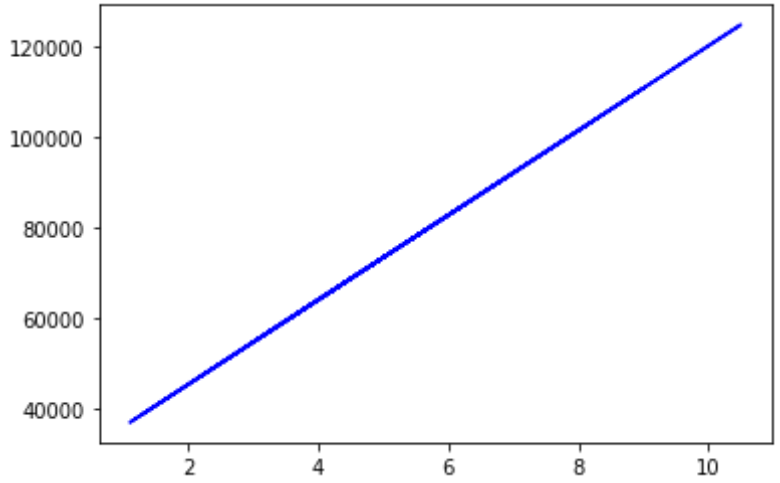
In [8]:
```
plt.scatter(X_train, y_train, color = 'red')
```

Out[8]:
```
<matplotlib.collections.PathCollection at 0x1e160b0ea20>
```



In [9]:
```
plt.plot(X_train, regressor.predict(X_train), color='blue')
```

Out[9]:
```
[<matplotlib.lines.Line2D at 0x1e160bbd6d8>]
```



In [10]:
```
plt.title('Salary vs Experience (Training set)')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
plt.show()
```

In [12]:
```
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 [13]:
```
import matplotlib.pyplot as plt
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()
```

In [14]:
```
new_salary_pred = regressor.predict([[15]])
print('The predicted salary of a person with 15 years experience is ',n
ew_salary_pred)
```

```
The predicted salary of a person with 15 years experience is  [167005.3
2889087]
```

In [ ]:
```

```