In [1]:
```
# Libraries

import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
```

In [2]:
```
#importing dataset

dataset = pd.read_csv('E:\\Meachine Learning Datasets\\Salary_Data.csv')
```

In [3]:
```
#seprating independent and depenndent values

Real_X = dataset.iloc[:,:-1].values
Real_Y = dataset.iloc[:,1].values

#Real_X = Real_X.reshape(-1,1)
#Real_Y = Real_Y.reshape(-1,1)
```

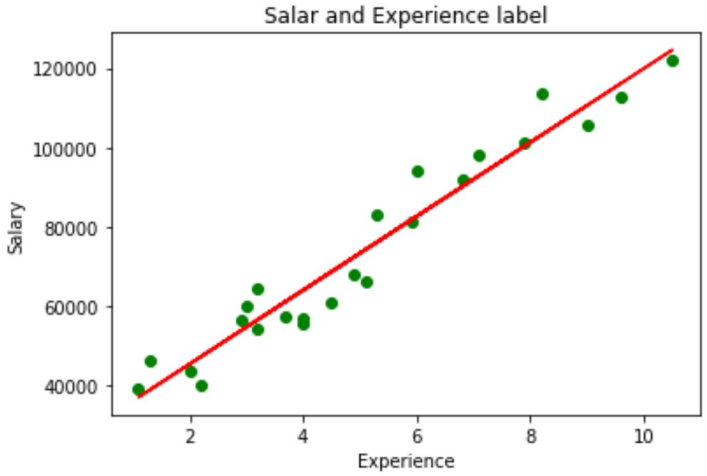
In [4]:
```
# seprating Testing and training sets

Training_X, Testing_X, Training_Y, Testing_Y = train_test_split(Real_X, Real_Y, tes
t_size = 0.2, random_state = 0)
```

In [5]:
```
# creating Linear Regression object

regressor = LinearRegression()

# traing regressor

regressor.fit(Training_X,Training_Y)
```

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

In [6]:
```
# prediction making

prediction = regressor.predict(Testing_X)
```

In [7]:
```
plt.scatter(Training_X,Training_Y,color = 'green')
plt.plot(Training_X,regressor.predict(Training_X),color = 'red')
plt.title('Salar and Experience label')
plt.xlabel('Experience')
plt.ylabel('Salary')
plt.show()
```



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