In [2]:
```
import numpy as np
```

In [3]:
```
import pandas as pd
```

In [5]:
```
df=pd.read_csv('data- linear regression.csv')
```

In [6]:
```
df
```

Out[6]:

| | qualification | experience | previous exp | Salary |
|---|---|---|---|---|
| **0** | 0 | 1 | 5 | 23500 |
| **1** | 0 | 3 | 2 | 24500 |
| **2** | 0 | 5 | 6 | 32500 |
| **3** | 0 | 8 | 4 | 36500 |
| **4** | 0 | 4 | 2 | 26500 |
| **5** | 0 | 6 | 2 | 30500 |
| **6** | 0 | 6 | 6 | 34500 |
| **7** | 0 | 7 | 4 | 34500 |
| **8** | 0 | 8 | 10 | 42500 |
| **9** | 0 | 5 | 2 | 28500 |
| **10** | 0 | 3 | 5 | 27500 |
| **11** | 0 | 2 | 3 | 23500 |
| **12** | 0 | 4 | 4 | 28500 |
| **13** | 0 | 6 | 2 | 30500 |
| **14** | 1 | 1 | 5 | 73000 |
| **15** | 1 | 3 | 2 | 73000 |
| **16** | 1 | 5 | 6 | 87000 |
| **17** | 1 | 8 | 4 | 92000 |
| **18** | 1 | 4 | 5 | 82000 |
| **19** | 1 | 6 | 3 | 84000 |
| **20** | 1 | 6 | 4 | 86000 |
| **21** | 1 | 7 | 4 | 89000 |
| **22** | 1 | 8 | 10 | 104000 |
| **23** | 1 | 5 | 2 | 79000 |
| **24** | 1 | 3 | 5 | 79000 |
| **25** | 1 | 2 | 3 | 72000 |
| **26** | 1 | 4 | 4 | 80000 |
| **27** | 1 | 6 | 2 | 82000 |
| **28** | 1 | 6 | 2 | 82000 |

In [7]:
```
x=['qualification','experience']
y=['Salary']
```

In [8]:
```
x1=df[['qualification','experience']]
y1=df['Salary']
```

In [9]:
```
from sklearn.linear_model import LinearRegression
lr=LinearRegression()
```

In [10]:
```
lr.fit(x1,y1)
```

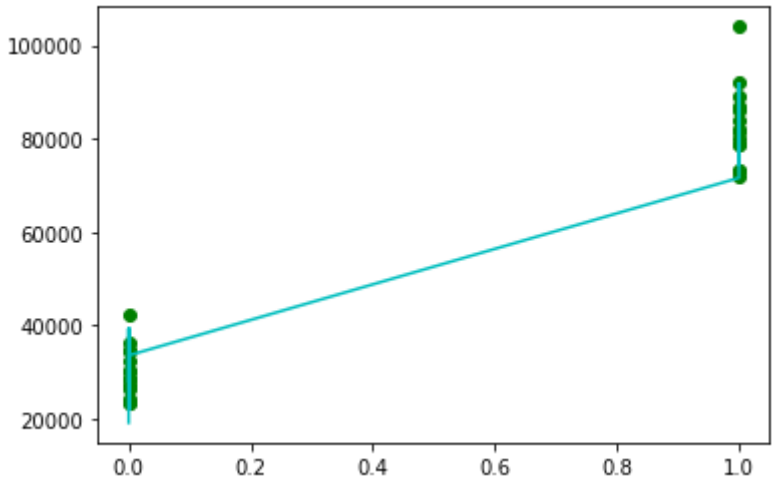
Out[10]:
```
LinearRegression()
```

In [11]:
```
y_predict=lr.predict(x1)
y_predict
```

Out[11]:
```
array([19175.87622356, 24936.53299653, 30697.1897695 , 39338.17492895,
       27816.86138301, 33577.51815598, 33577.51815598, 36457.84654247,
       39338.17492895, 30697.1897695 , 24936.53299653, 22056.20461004,
       27816.86138301, 33577.51815598, 71604.04167982, 77364.69845279,
       83125.35522577, 91766.34038522, 80245.02683928, 86005.68361225,
       86005.68361225, 88886.01199874, 91766.34038522, 83125.35522577,
       77364.69845279, 74484.37006631, 80245.02683928, 86005.68361225,
       86005.68361225])
```

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

In [22]:
```
plt.scatter(x1['qualification'],y1,color='g')
plt.plot(x1['qualification'],y_predict,color ='c')
plt.legend
plt.show()
```




In [ ]: