Data Visulization Project 1st

In [1]:
```
import openpyxl
import pandas as pd
workbook = openpyxl.Workbook()
sheet = workbook.active

data = [
    ['Name', 'Domin', 'Age', 'Location', 'Salary', 'Exp'],
    ['Alex', 'Testing', 25, 'BNG', 5000, 2],
    ['BARB', 'JAVA', 30, 'CHE', 10000, 3],
    ['CHERRY', 'c', 35, 'PUNE', 15000, 4],
    ['Dipan', 'DA', 38, 'MUMBAI', 20000, 5],
    ['ESWAR', 'DS', 40, 'HYD', 25000, 6],
]
for row in data:
    sheet.append(row)
    workbook.save('data.xlsx')
```

In [2]:
```
data
```

Out[2]:
```
[['Name', 'Domin', 'Age', 'Location', 'Salary', 'Exp'],
 ['Alex', 'Testing', 25, 'BNG', 5000, 2],
 ['BARB', 'JAVA', 30, 'CHE', 10000, 3],
 ['CHERRY', 'c', 35, 'PUNE', 15000, 4],
 ['Dipan', 'DA', 38, 'MUMBAI', 20000, 5],
 ['ESWAR', 'DS', 40, 'HYD', 25000, 6]]
```

In [3]:
```
import os
os.getcwd()
```

Out[3]:
```
'C:\\Users\\Admin'
```

In [4]:
```
emp = pd.read_excel(r'C:\\Users\\Admin//data.xlsx')
emp
```

Out[4]:

	Name	Domin	Age	Location	Salary	Exp
0	Alex	Testing	25	BNG	5000	2
1	BARB	JAVA	30	CHE	10000	3
2	CHERRY	c	35	PUNE	15000	4
3	Dipan	DA	38	MUMBAI	20000	5
4	ESWAR	DS	40	HYD	25000	6

In [5]:
```
emp.shape
```

Out[5]:
```
(5, 6)
```

In [6]:
```
emp.columns
```

Out[6]:
```
Index(['Name', 'Domin', 'Age', 'Location', 'Salary', 'Exp'], dtype='object')
```

In [7]:
```
len(emp.columns)
```

Out[7]: 6

In [8]:
```
len(emp)
```

Out[8]: 5

In [9]:
```
emp
```

Out[9]:

	Name	Domin	Age	Location	Salary	Exp
0	Alex	Testing	25	BNG	5000	2
1	BARB	JAVA	30	CHE	10000	3
2	CHERRY	c	35	PUNE	15000	4
3	Dipan	DA	38	MUMBAI	20000	5
4	ESWAR	DS	40	HYD	25000	6

In [10]:
```
emp['Salary']
```

Out[10]:
```
0     5000
1    10000
2    15000
3    20000
4    25000
Name: Salary, dtype: int64
```

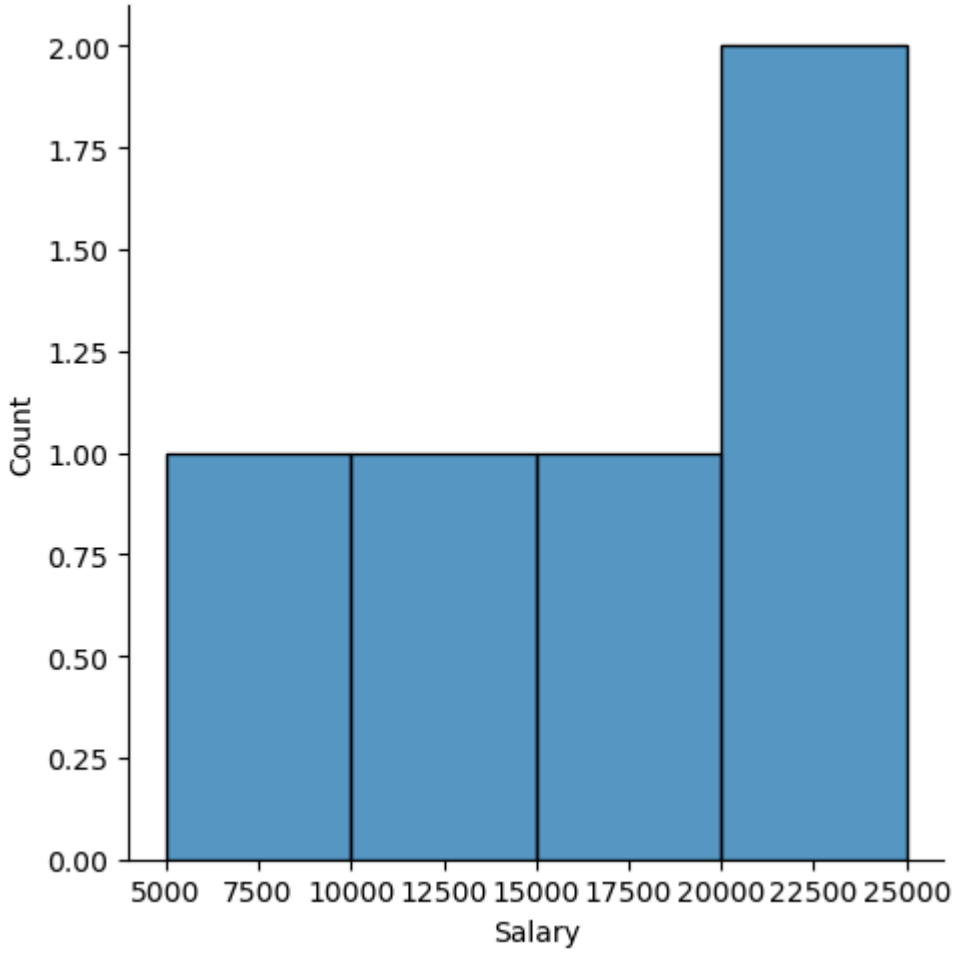
In [11]:
```
emp[['Salary','Exp']]
```

Out[11]:

	Salary	Exp
0	5000	2
1	10000	3
2	15000	4
3	20000	5
4	25000	6

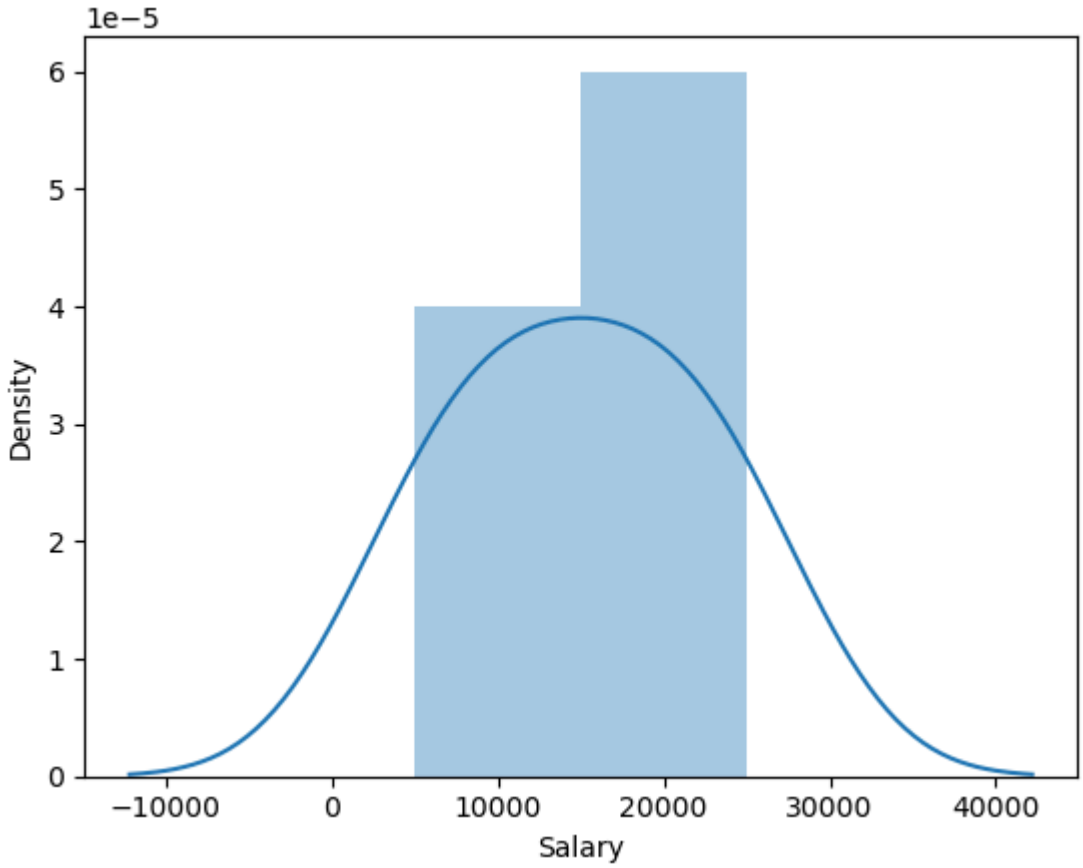
In [12]:
```
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [13]:
```
visl = sns.displot(emp['Salary'])
```

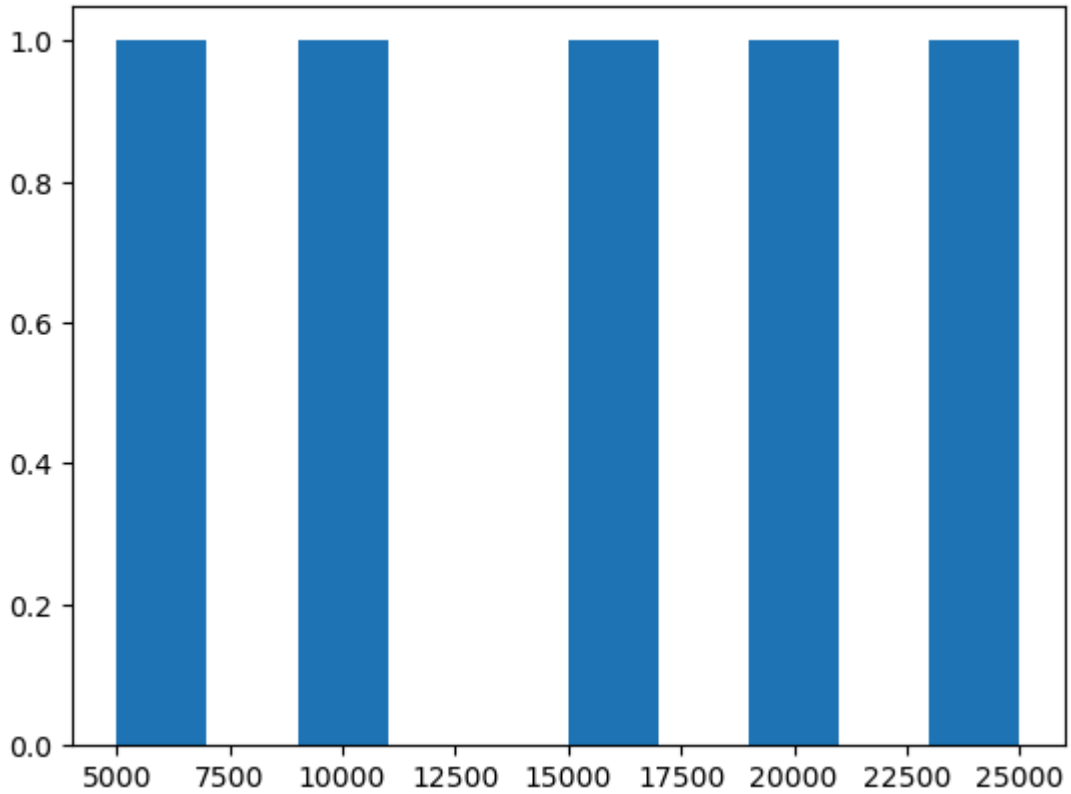


In [14]:
```
vis2 = sns.distplot(emp['Salary'])
```

```
C:\Users\Admin\AppData\Local\Temp\ipykernel_8292\3650463641.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  vis2 = sns.distplot(emp['Salary'])
```

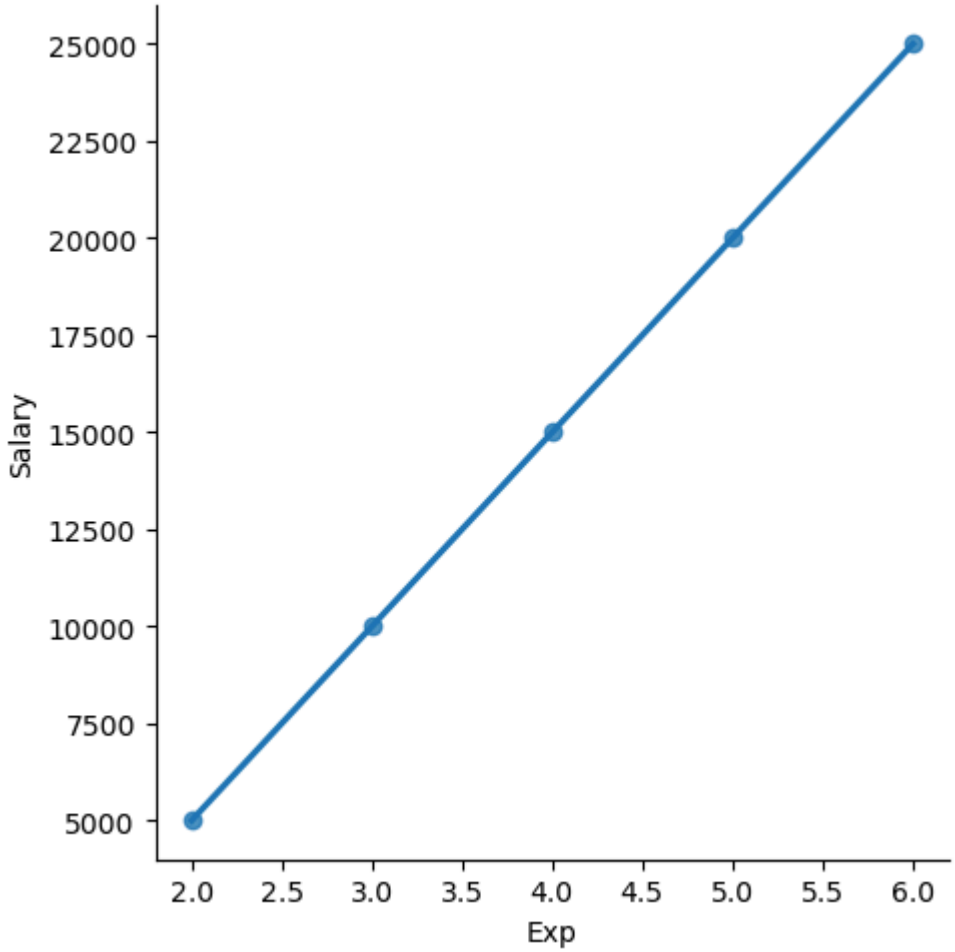


In [16]:
```
vis3 = plt.hist (emp['Salary'])
```

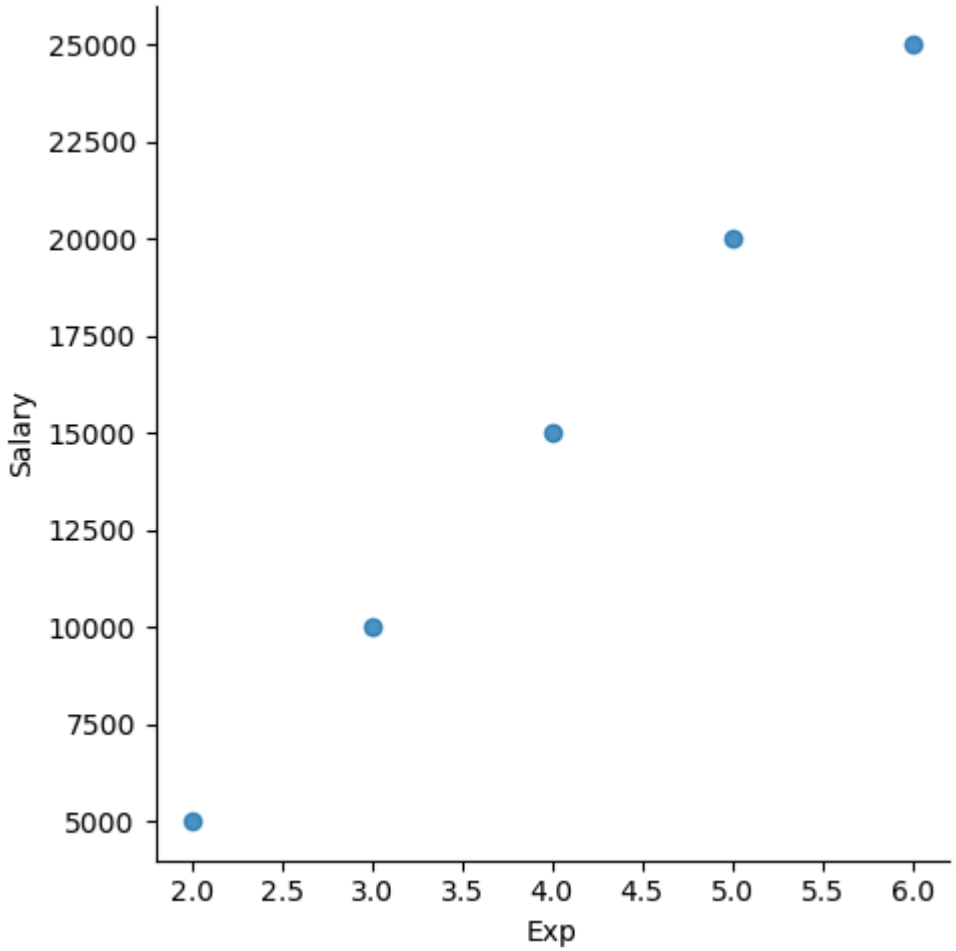


In [18]:
```
plt.rcParams['figure.figsize'] = 5,1
```

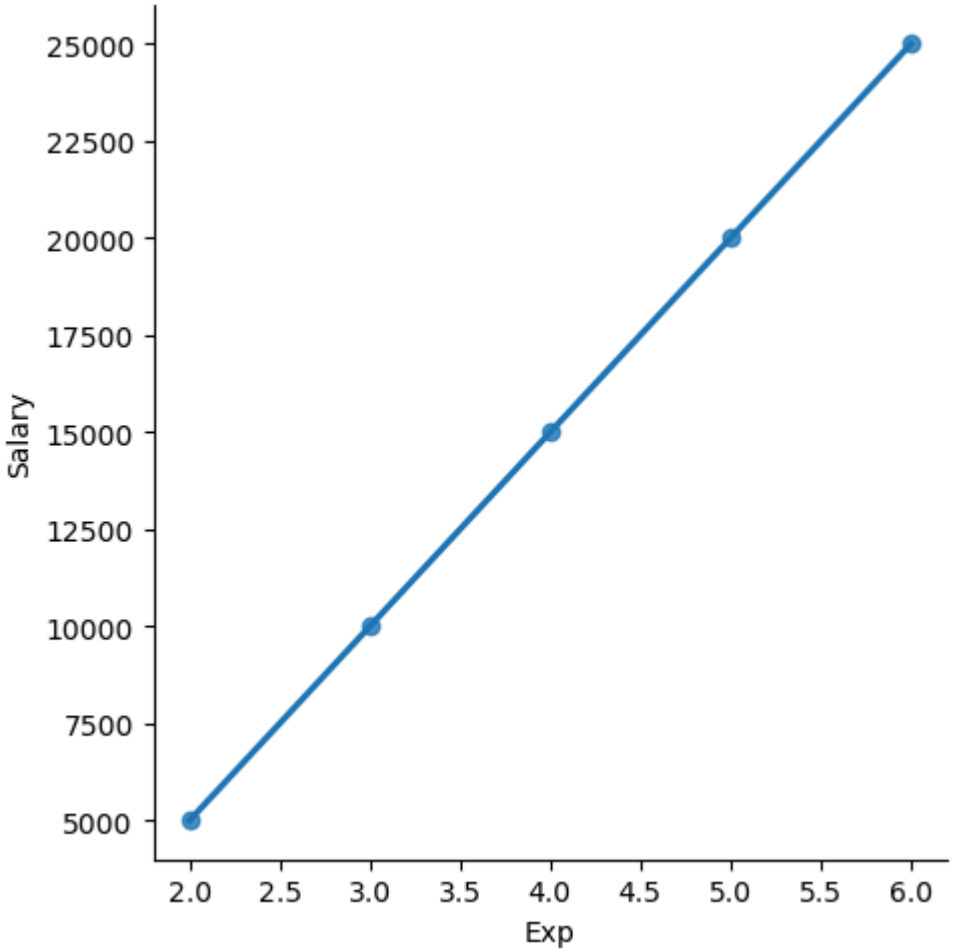
In [21]:
```
vis5 = sns.lmplot(data=emp, x ='Exp', y = 'Salary')
```



In [24]:
```
vis5 = sns.lmplot(data=emp, x='Exp', y='Salary', fit_reg=False)
```



In [25]:
```
vis5 = sns.lmplot(data=emp, x='Exp', y='Salary', fit_reg=True)
```



mini project are complited

In [ ]: