Data and information visualization

import numpy as np
import pandas as pd

import matplotlib.pyplot as plt

Read Data Csv file

df=pd.read_csv("Salary_Data.csv")
df

→		YearsExperience	Salary	
	0	1.1	39343.0	11.
	1	1.3	46205.0	+0
	2	1.5	37731.0	0
	3	2.0	43525.0	
	4	2.2	39891.0	
	5	2.9	56642.0	
	6	3.0	60150.0	
	7	3.2	54445.0	
	8	3.2	64445.0	
	9	3.7	57189.0	
	10	3.9	63218.0	
	11	4.0	55794.0	
	12	4.0	56957.0	
	13	4.1	57081.0	
	14	4.5	61111.0	
	15	4.9	67938.0	
	16	5.1	66029.0	
	17	5.3	83088.0	
	18	5.9	81363.0	
	19	6.0	93940.0	
	20	6.8	91738.0	
	21	7.1	98273.0	
	22	7.9	101302.0	
	23	8.2	113812.0	
	24	8.7	109431.0	
	25	9.0	105582.0	
	26	9.5	116969.0	
	27	9.6	112635.0	
	28	10.3	122391.0	
	29	10.5	121872.0	

Next steps: Generate code with df View recommended plots New interactive sheet

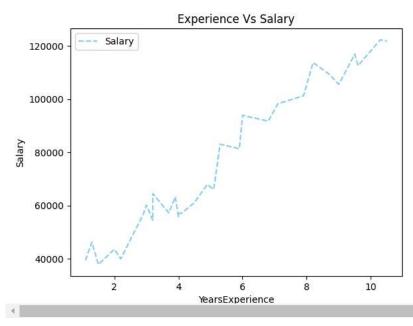
df.sort_values(by="YearsExperience")
df.head(10)



Plot graph

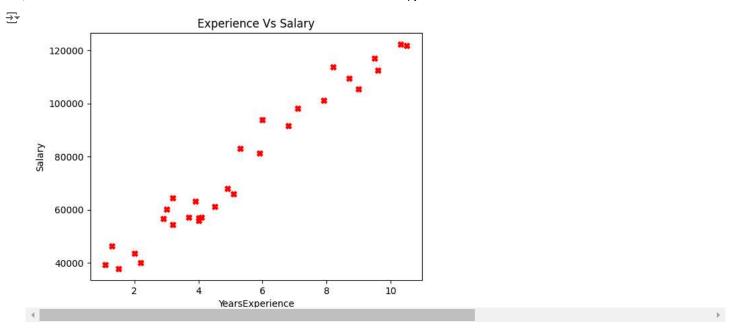
```
df.plot('YearsExperience','Salary',color='Skyblue',linestyle='--')
plt.title('Experience Vs Salary')
plt.xlabel('YearsExperience')
plt.ylabel('Salary')
plt.show()
```





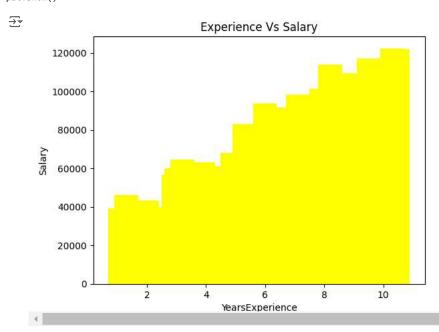
Scatter Plot

```
plt.scatter(df['YearsExperience'],df['Salary'],color='red',marker='X')
plt.xlabel('YearsExperience')
plt.ylabel('Salary')
plt.title('Experience Vs Salary')
plt.show()
```

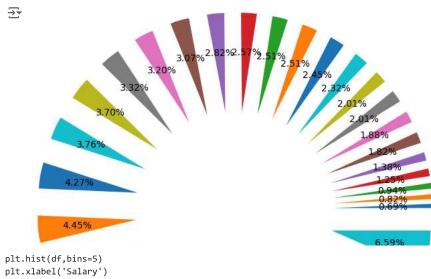


Bar Graph

```
plt.bar(df['YearsExperience'],df['Salary'],color='Yellow')
plt.xlabel('YearsExperience')
plt.ylabel('Salary')
plt.title('Experience Vs Salary')
plt.show()
```



plt.pie(df['YearsExperience'],df['Salary']==df['Salary'],autopct='%1.2f%%')
plt.show()



plt.hist(df,bins=5)
plt.xlabel('Salary')
plt.ylabel('No worker')
plt.title('Worker Vs Salary')
plt.show()

