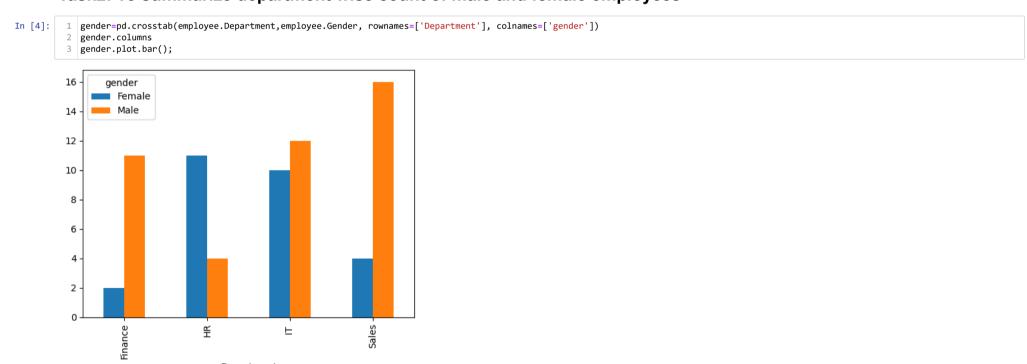
```
In [71]: | 1 | import pandas as pd
           2 import matplotlib.pyplot as plt
           3 import seaborn as sns
          1 employee=pd.read_excel(r"K:\Desktop\NIIT\tables\DS1_C4_S5_Employee_Data_Practice.xlsx")
 Out[7]:
             Employee_Code Gender Department Annual Salary ($) Age Work_Experience
          0
                      1010 Male
                                         IT
                                                     27000 22
                                         IT
                      1011 Female
                                                     48000
                                                           31
                      1012
                             Male
                                       Sales
                                                     75000
                      1013
                                                     61000
                                                           29
                      1014 Female
                                      Finance
                                                     45000 27
          65
                      1074 Female
                                        HR
                                                     82500 43
          66
                      1075
                                       Sales
                                                     53500
                                                           28
          67
                      1076 Female
                                        HR
                                                     57000
                                                                           19
                      1078
                             Male
                                                     92000
                                                           45
                                      Finance
         70 rows × 6 columns
```

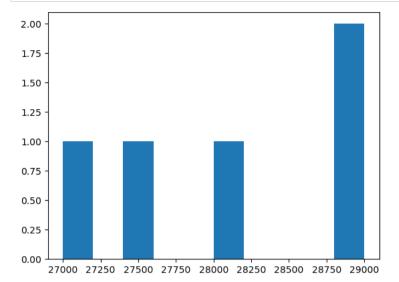
Task1: To summarize department wise salary and use index to display bar graph to compare the salaries ¶

Task2: To summarize department wise count of male and female employees



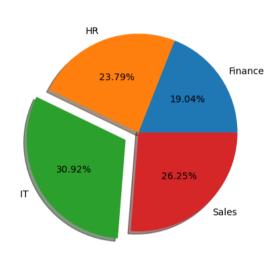
Task 3: To calculate how much would a fresher earn in IT department and find average

```
IT [30]: IT=employee[(employee.Department!="HR")&(employee.Department!="Sales")&(employee.Department!="Finance")&(employee.Work_Experience==0)]
IT["Annual Salary ($)"].mean()
plt.hist(IT["Annual Salary ($)"]);
```

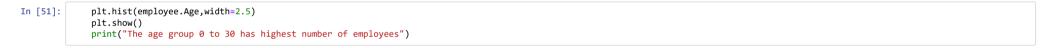


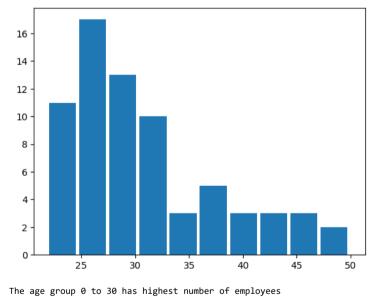
Task4: To determine department wise ratio of cost to company

```
In [45]: sal_dept=employee.groupby("Department").sum()["Annual Salary ($)"]
    plt.pie(sal_dept,labels=sal_dept.index,autopct="%.2f%%",explode=[0,0,0.15,0],shadow=True);
```



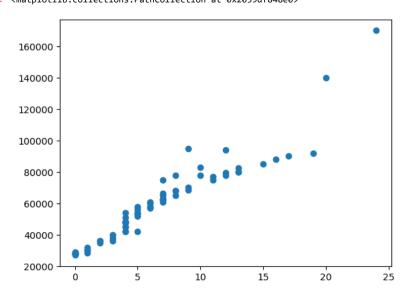
Task5: To find which age group has greatest number of employees





Task6: To plot trendline for salary and experience

```
In [53]:    plt.scatter(employee['Work_Experience'],employee['Annual Salary ($)'])
Out[53]:    <matplotlib.collections.PathCollection at 0x2059df848e0>
```



Task 7: To find draw boxplot for department wise salary spread

In [104]: sns.boxplot(x="Department",y='Annual Salary (\$)',data=employee);

