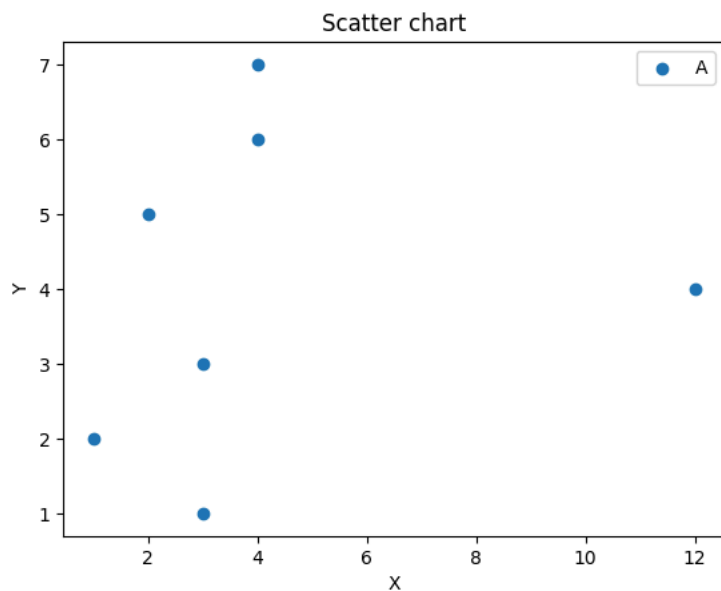```
1 import matplotlib.pyplot as plt
2 x=[3,1,3,12,2,4,4]
3 y=[3,2,1,4,5,6,7]
4 plt.scatter(x,y)
5 plt.legend("A")
6 plt.xlabel("X")
7 plt.ylabel("Y")
8 plt.title("Scatter chart")
9 plt.show()
```
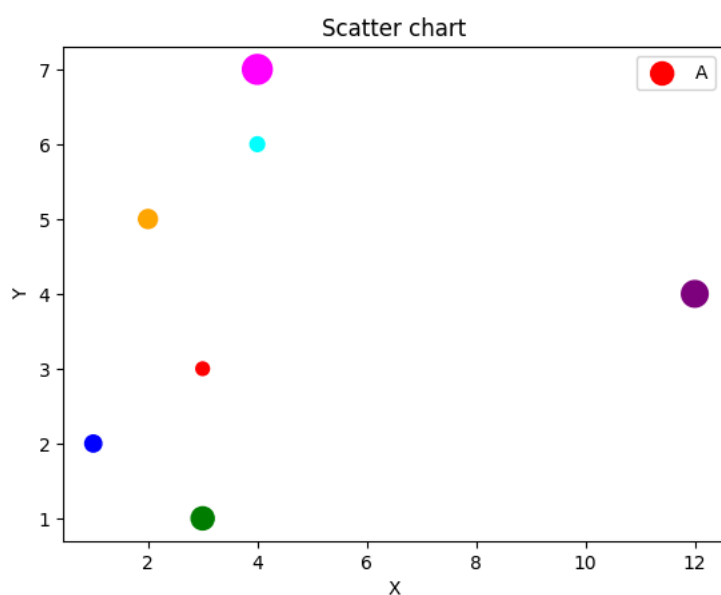


```
1 x=[3,1,3,12,2,4,4]
2 y=[3,2,1,4,5,6,7]
3 sizes=[50,80,150,200,100,60,250]
4 colors=['red','blue','green','purple','orange','cyan','magenta']
5 plt.scatter(x,y, s=sizes, c=colors)
6 plt.legend("A")
7 plt.xlabel("X")
8 plt.ylabel("Y")
9 plt.title("Scatter chart")
10 plt.show()
```
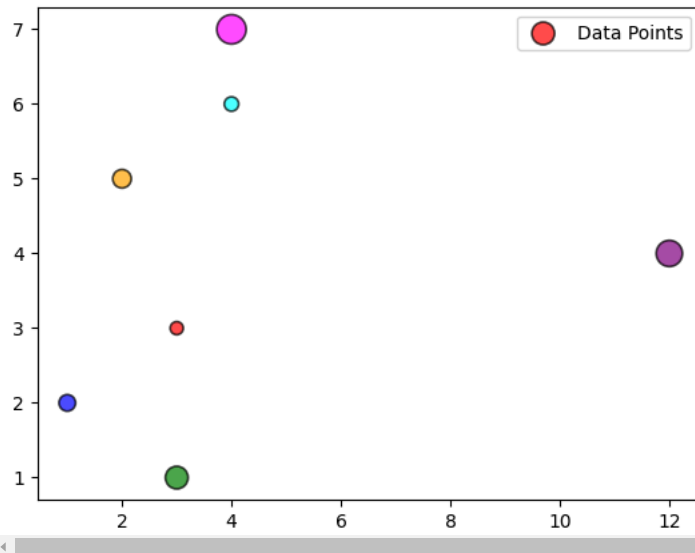


```
1  x=[3,1,3,12,2,4,4]
2  y=[3,2,1,4,5,6,7]
3  sizes=[50,80,150,200,100,60,250]
4  colors=['red','blue','green','purple','orange','cyan','magenta']
5  plt.scatter(x,y,s=sizes ,c=colors,marker='o',alpha=0.7,edgecolors='black',
   linewidth=1.2)
6  plt.legend(["Data Points"],loc='upper right')
```

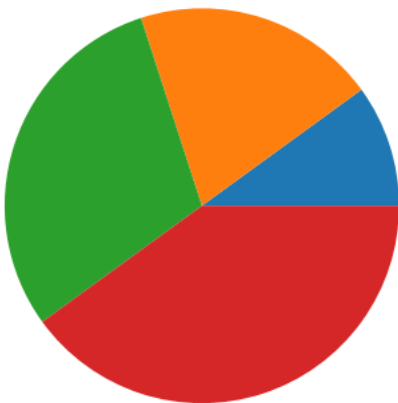`<matplotlib.legend.Legend at 0x7d199cef6d50>`


```
1 import matplotlib.pyplot as plt
2 x=[1,2,3,4]
3 y=[0.1,0,0,0]
4 plt.pie(x)
5 plt.title("Pie Chart")
6 plt.show()
```
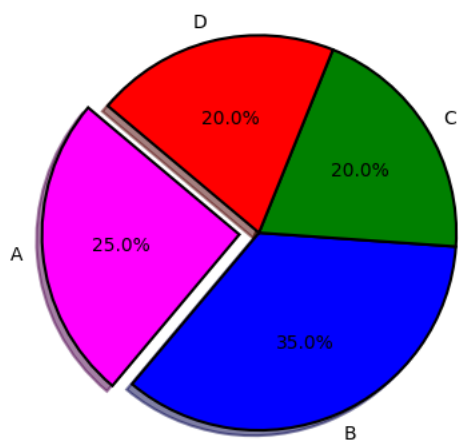

Pie Chart

```
1  x=[25,35,20,20]
2  labels=['A','B','C','D']
3  colors=['magenta','blue','green','red']
4  explode=(0.1,0,0,0)
5  plt.pie(x,labels=labels,colors=colors,explode=explode,autopct='%1.1f%%',
   shadow=True,startangle=140,wedgeprops={'edgecolor':'black','linewidth':1.5})
6  plt.title("Pie Chart")
7  plt.show()
```
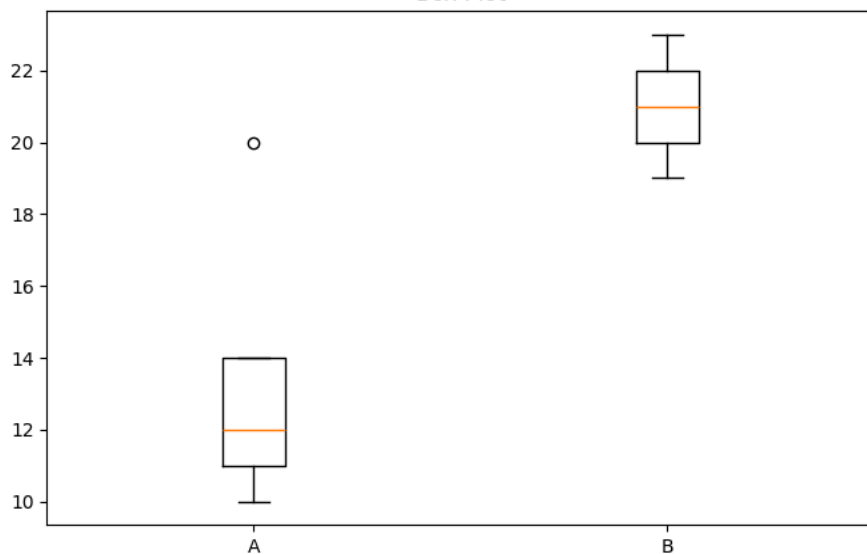
Pie Chart


```
1  import matplotlib.pyplot as plt
2  data=[
3      [10,12,14,11,20],
4      [20,22,19,21,23]
5  ]
6  plt.figure(figsize=(8,5))
7  plt.boxplot(data,labels=['A','B'])
8  plt.title("Box Plot")
9  plt.show()
```

--INSERT--

```
<ipython-input-27-d4f5d48f0c2f>:7: MatplotlibDeprecationWarning: The 'labels' parameter of boxplot() has been renamed 'tick_labels'
  plt.boxplot(data,labels=['A','B'])
```

Box Plot


```
1  import matplotlib.pyplot as plt
2  data=[
3      [10,12,14,11,20],
4      [20,22,19,21,23]
5  ]
6  plt.figure(figsize=(8,5))
7  plt.boxplot(data,labels=['A','B'],patch_artist=True,flierprops=dict(marker='o',
   color='red',markersize=8), whiskerprops=dict(linestyle='--',linewidth=1.5,
   color='black'),capprops=dict(linewidth=2,color='black'),medianprops=dict
   (linewidth=2,color='green'))
8  plt.title("Box Plot")
9  plt.show()
```

Box Plot