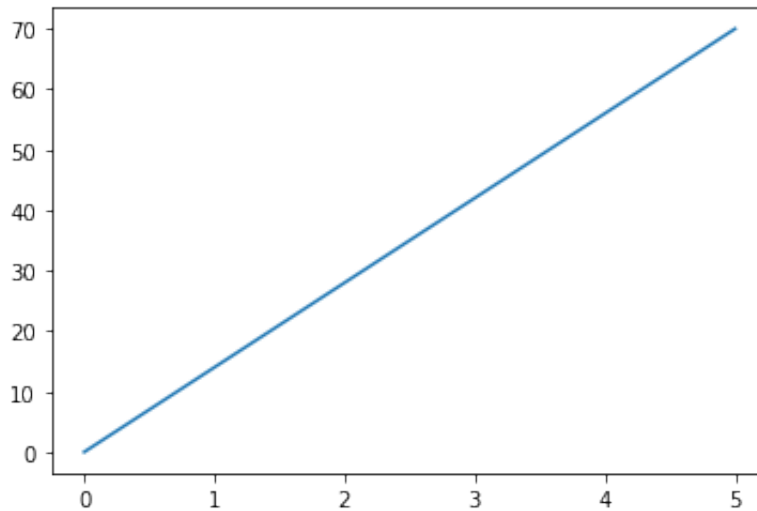
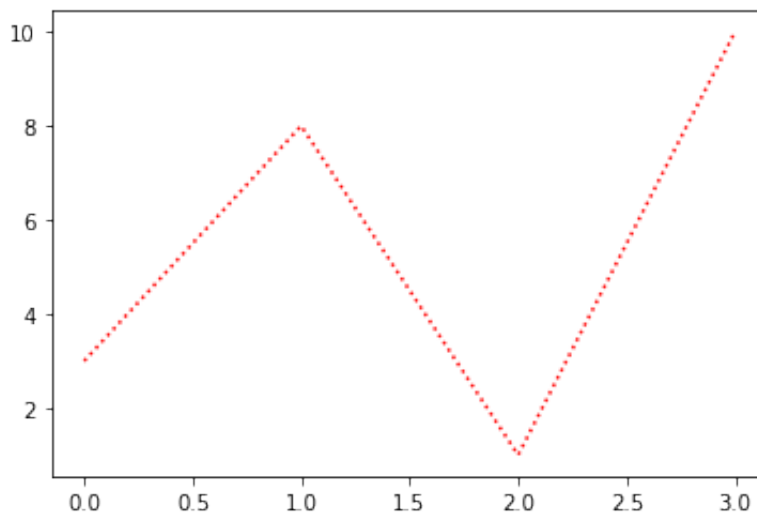


```
In [2]: 1 import pandas as pd
        2 import numpy as np
        3 import matplotlib.pyplot as plt
        4 import seaborn as sns
```

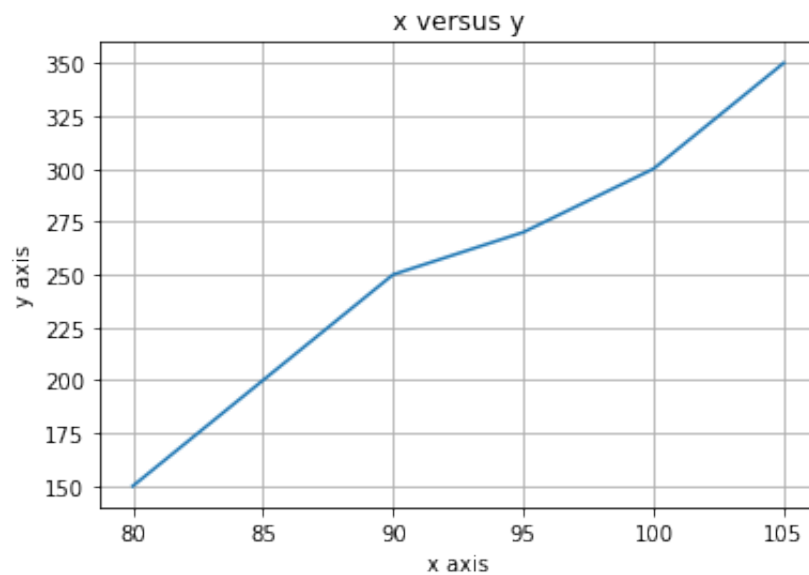
```
In [4]: 1 # plot()
        2
        3 xpoint = np.array([0,5])
        4 ypoint = np.array([0,70])
        5
        6 plt.plot(xpoint,ypoint)
        7 plt.show()
```



```
In [7]: 1 # line plot
        2
        3 points = np.array([3,8,1,10])
        4
        5 plt.plot(points,linestyle = 'dotted',color = 'red')
        6 plt.show()
```

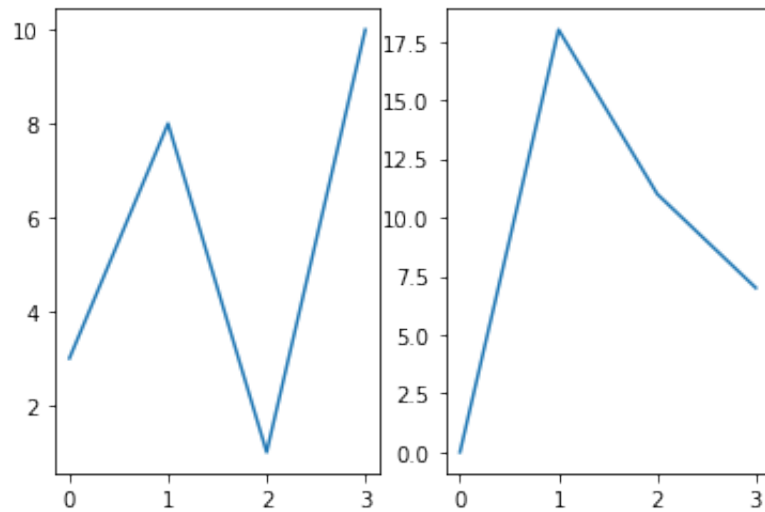


```
In [8]: 1 # with grid
2
3 x = np.array([80,85,90,95,100,105])
4 y = np.array([150,200,250,270,300,350])
5
6 plt.title("x versus y")
7 plt.xlabel("x axis")
8 plt.ylabel("y axis")
9 plt.plot(x,y)
10 plt.grid()
11 plt.show()
```



In [9]:

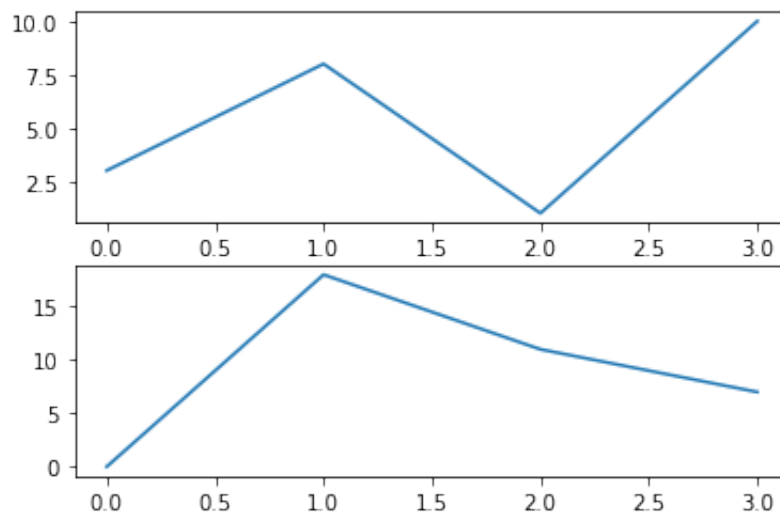
```
1 # subplot
2
3 points1 = np.array([3,8,1,10])
4 points2 = np.array([0,18,11,7])
5
6 plt.subplot(1,2,1)
7 plt.plot(points1)
8
9
10 plt.subplot(1,2,2)
11 plt.plot(points2)
12
13 plt.show()
```



```

In [10]: 1 # subplot
          2
          3 points1 = np.array([3,8,1,10])
          4 points2 = np.array([0,18,11,7])
          5
          6 plt.subplot(2,1,1)
          7 plt.plot(points1)
          8
          9
         10 plt.subplot(2,1,2)
         11 plt.plot(points2)
         12
         13 plt.show()

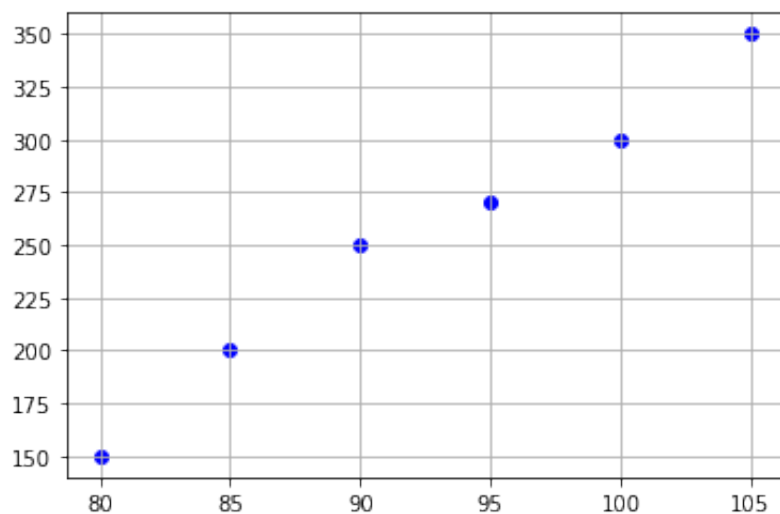
```



```

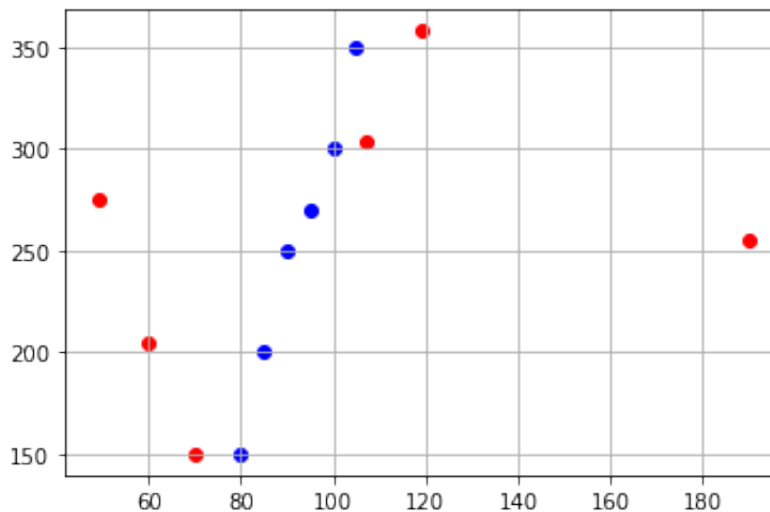
In [12]: 1 # scatter plot
          2
          3 x = np.array([80,85,90,95,100,105])
          4 y = np.array([150,200,250,270,300,350])
          5 plt.scatter(x,y,color = 'blue')
          6 plt.grid()
          7 plt.show()

```



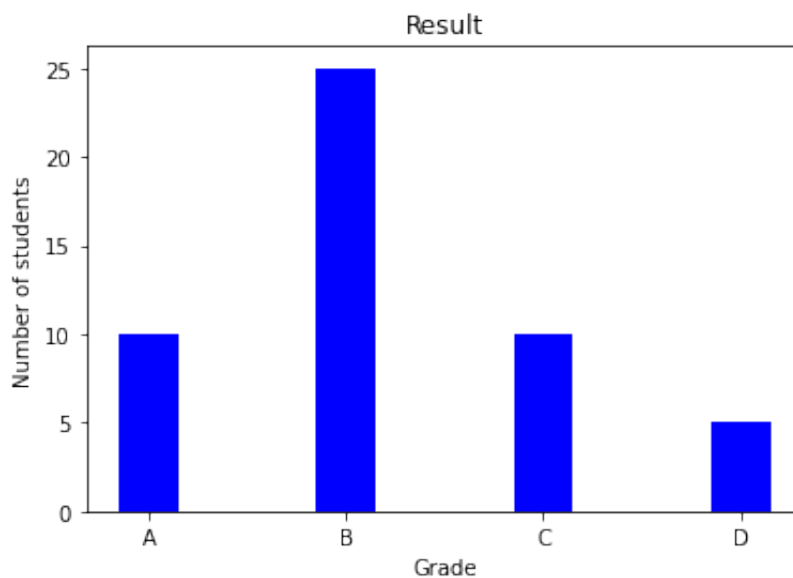
In [14]:

```
1 # multiple scatter plot
2
3 x1 = np.array([80,85,90,95,100,105])
4 y1 = np.array([150,200,250,270,300,350])
5 plt.scatter(x1,y1,color = 'blue')
6
7 x2 = np.array([70,60,190,49,107,119])
8 y2 = np.array([150,205,255,275,304,358])
9 plt.scatter(x2,y2,color = 'red')
10
11 plt.grid()
12 plt.show()
```

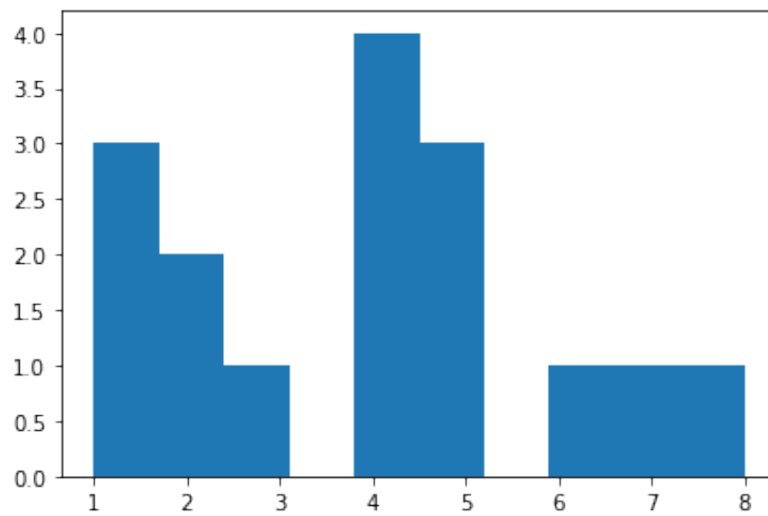


In [25]:

```
1 # bar plot
2
3 x = np.array(['A', 'B', 'C', 'D'])
4 y = np.array([10,25,10,5])
5
6 plt.bar(x,y,width=0.3,color = 'blue')
7 plt.xlabel("Grade")
8 plt.ylabel("Number of students")
9 plt.title("Result")
10 plt.show()
```



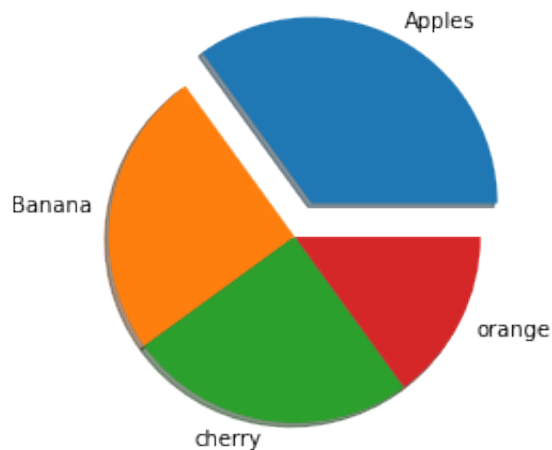
```
In [26]: 1 # histogram : its a plot which represents count of particular
2
3 x = np.array([1,1,2,3,4,4,4,5,5,6,7,8,2,4,1,5])
4 plt.hist(x)
5 plt.show()
```



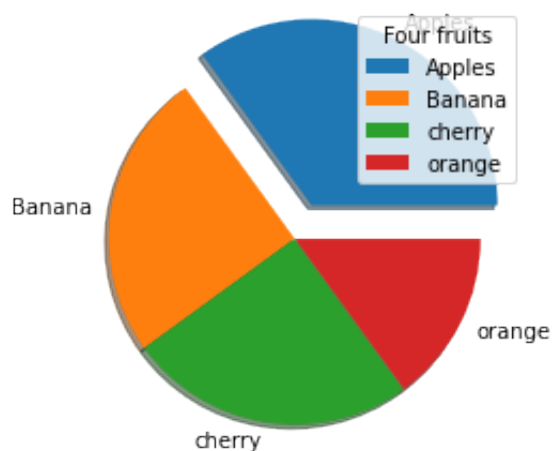
```
In [31]: 1 # Pie chart
2 y = np.array([35,25,25,15])
3 plt.pie(y)
4 plt.show()
```



```
In [34]: 1 y = np.array([35,25,25,15])
2 mylables = ['Apples',"Banana","cherry","orange"]
3 myexplode = [0.2,0,0,0]
4 plt.pie(y,labels =mylables,explode = myexplode, shadow = True )
5 plt.show()
```



```
In [38]: 1 y = np.array([35,25,25,15])
2 mylables = ['Apples',"Banana","cherry","orange"]
3 myexplode = [0.2,0,0,0]
4 plt.pie(y,labels =mylables,explode = myexplode, shadow = True )
5 plt.legend(loc= 'best',title = "Four fruits")
6 plt.show()
```



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