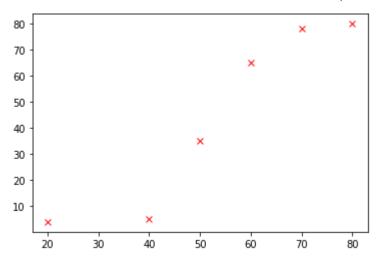
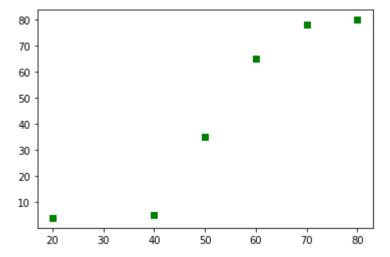
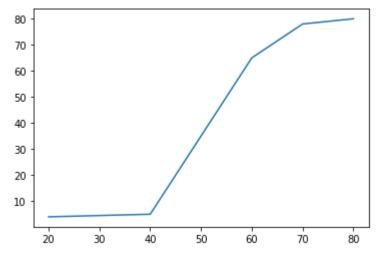
```
import matplotlib.pyplot as plt
In [1]:
         x=5
In [2]:
         y=8
         plt.plot(x,y)
         plt.show()
         8.4
         8.3
         8.2
         8.1
         8.0
         7.9
         7.8
         7.7
         7.6
                             4.9
                                      5.0
                                                5.1
                                                          5.2
                   4.8
In [3]:
         x=5
         plt.plot(x,y,'rx')
         plt.show()
         8.4
         8.3
         8.2
         8.1
         8.0
         7.9
         7.8
         7.7
         7.6
                                                5.1
                             4.9
                                      5.0
                                                          5.2
                   4.8
         x=[20,40,50,60,70,80]
In [4]:
         y=[4,5,35,65,78,80]
         plt.plot(x,y,'rx')
         plt.show()
```



```
In [5]: x=[20,40,50,60,70,80]
    y=[4,5,35,65,78,80]
    plt.plot(x,y,'gs')
    plt.show()
```

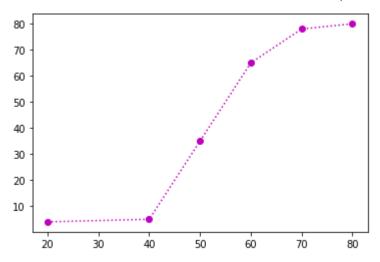


```
In [6]: x=[20,40,50,60,70,80]
    y=[4,5,35,65,78,80]
    plt.plot(x,y)
    plt.show()
```

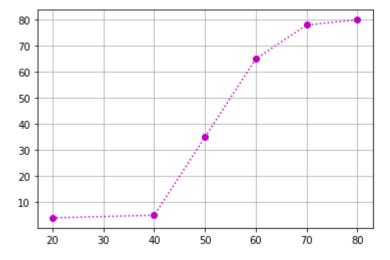


In [7]: x=[20,40,50,60,70,80]

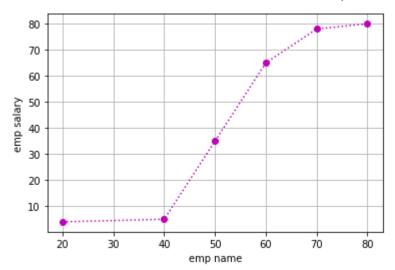
```
y=[4,5,35,65,78,80]
         plt.plot(x,y,':')
         plt.show()
         80
         70
         60
         50
         40
         30
         20
         10
                                             60
                                     50
              20
                     30
                                                    70
                                                            80
         x=[20,40,50,60,70,80]
In [8]:
         y=[4,5,35,65,78,80]
         plt.plot(x,y,'--')
         plt.show()
         80
         70
         60
         50
         40
         30
         20
         10
                                     50
                                             60
                             40
                                                    70
                                                            80
                     30
              20
         x=[20,40,50,60,70,80]
In [9]:
         y=[4,5,35,65,78,80]
         plt.plot(x,y,'mo:')
         plt.show()
```



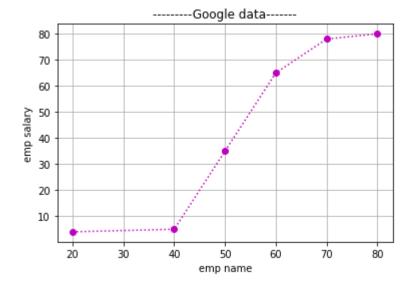
```
In [10]: x=[20,40,50,60,70,80]
    y=[4,5,35,65,78,80]
    plt.plot(x,y,'mo:')
    plt.grid()
    plt.show()
```



```
In [11]: x=[20,40,50,60,70,80]
    y=[4,5,35,65,78,80]
    plt.plot(x,y,'mo:')
    plt.xlabel('emp name')
    plt.ylabel('emp salary')
    plt.grid()
    plt.show()
```



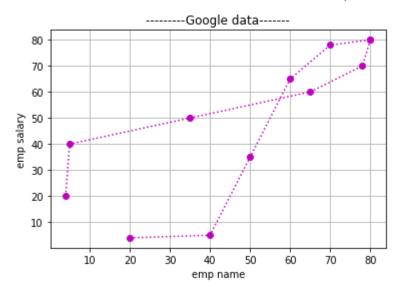
```
In [12]: x=[20,40,50,60,70,80]
    y=[4,5,35,65,78,80]
    plt.plot(x,y,'mo:')
    plt.xlabel('emp name')
    plt.ylabel('emp salary')
    plt.title('------Google data-----')
    plt.grid()
    plt.show()
```



```
In [13]: x1=[20,40,50,60,70,80]
    y1=[4,5,35,65,78,80]

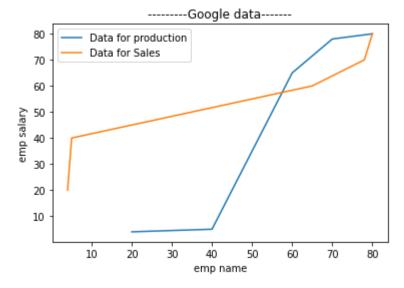
    x2=[4,5,35,65,78,80]
    y2=[20,40,50,60,70,80]

    plt.plot(x1,y1,'mo:')
    plt.plot(x2,y2,'mo:')
    plt.xlabel('emp name')
    plt.ylabel('emp salary')
    plt.title('------Google data-----')
    plt.grid()
    plt.show()
```



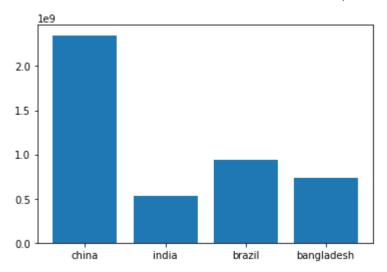
```
In [14]: x1=[20,40,50,60,70,80]
    y1=[4,5,35,65,78,80]
    x2=[4,5,35,65,78,80]
    y2=[20,40,50,60,70,80]

plt.plot(x1,y1,label='Data for production')
    plt.plot(x2,y2,label='Data for Sales')
    plt.xlabel('emp name')
    plt.ylabel('emp salary')
    plt.title('------Google data-----')
# plt.grid()
    plt.legend()
    plt.show()
```

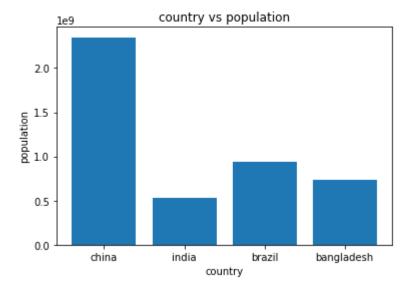


```
print(ar[2][0])
In [17]:
         12
In [18]:
         ar=np.linspace(3,5)
In [19]:
         ar
                           , 3.04081633, 3.08163265, 3.12244898, 3.16326531,
         array([3.
Out[19]:
                 3.20408163, 3.24489796, 3.28571429, 3.32653061, 3.36734694,
                 3.40816327, 3.44897959, 3.48979592, 3.53061224, 3.57142857,
                 3.6122449 , 3.65306122, 3.69387755, 3.73469388, 3.7755102 ,
                 3.81632653, 3.85714286, 3.89795918, 3.93877551, 3.97959184,
                 4.02040816, 4.06122449, 4.10204082, 4.14285714, 4.18367347,
                 4.2244898 , 4.26530612, 4.30612245, 4.34693878, 4.3877551 ,
                 4.42857143, 4.46938776, 4.51020408, 4.55102041, 4.59183673,
                 4.63265306, 4.67346939, 4.71428571, 4.75510204, 4.79591837,
                 4.83673469, 4.87755102, 4.91836735, 4.95918367, 5.
                                                                             ])
         ar=np.linspace(3,5,10)
In [20]:
          ar
                           , 3.2222222, 3.44444444, 3.66666667, 3.88888889,
         array([3.
Out[20]:
                 4.1111111, 4.33333333, 4.55555556, 4.77777778, 5.
                                                                             1)
          # create a python plot to prepare a bar chart for the given table.
In [21]:
          country=['china','india','brazil','bangladesh' ]
          population=[2349006998,234900677,234900678,234900679]
          plt.bar(country,population)
         <BarContainer object of 4 artists>
Out[21]:
          2.0
          1.5
          1.0
          0.5
          0.0
                  china
                              india
                                         brazil
                                                   bangladesh
          country=['china','india','brazil','bangladesh' ]
In [22]:
          population=[2349006998,534900677,934900678,734900679]
          plt.bar(country,population)
          <BarContainer object of 4 artists>
```

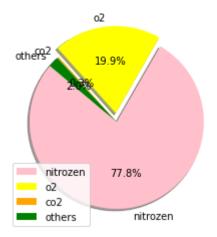
Out[22]:



```
In [24]: plt.xlabel("country")
  plt.ylabel("population")
  plt.title("country vs population")
  plt.bar(country,population)
  plt.show()
```



```
In [25]: # display the components of air in a form of pie chart
    gases=['nitrozen','o2','co2','others']
    sizes=[78,20,0.3,1.97]
    colors=['pink','yellow','orange','green']
    plt.pie(sizes,explode=(0,0.1,0,0),labels=gases,colors=colors,autopct='%1.1f%%',shadow=plt.legend()
    plt.show()
```



In []