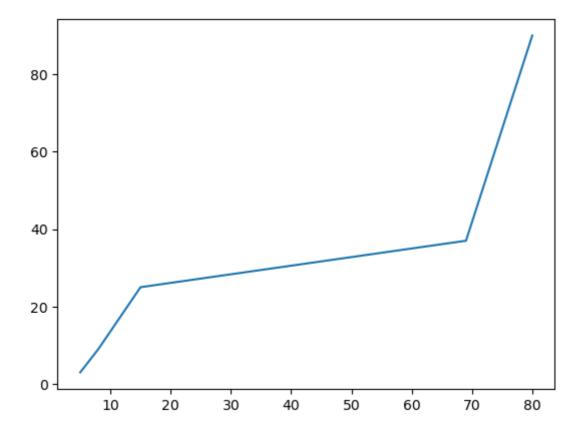
```
In [1]: import pandas as pd
import numpy as np
#the import file of matplot
import matplotlib.pyplot as plt
```

```
In [5]: x=np.array([5,8,15,69,80])
    y=np.array([3,9,25,37,90])
    #plot the graph with single cordinate

    x1=np.array([4,5,88,73])
    y1=np.array([9,12,44,56])

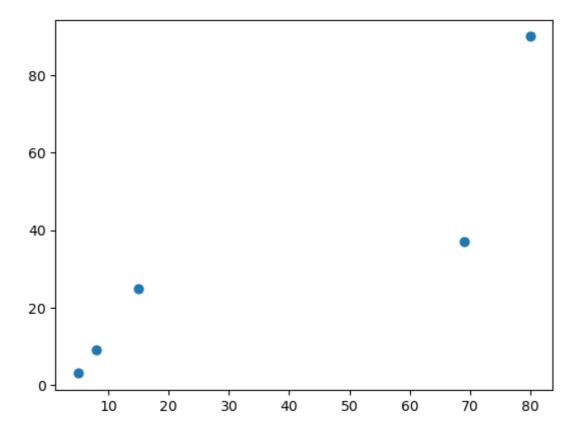
    plt.plot(x,y)
```

Out[5]: [<matplotlib.lines.Line2D at 0x23daf071290>]

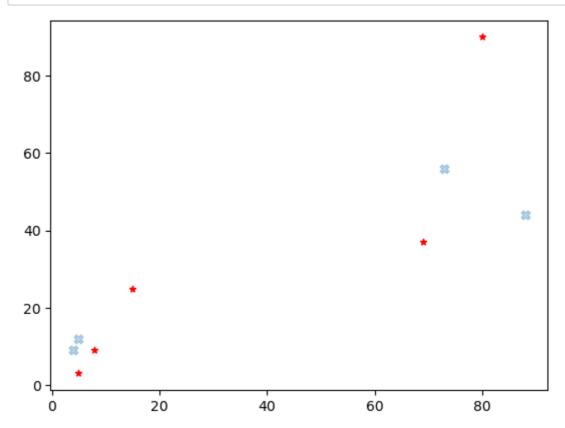


```
In [4]: #plotting the scatter graph using the matplotlib
    plt.scatter(x,y,s=40)
    plt.show
```

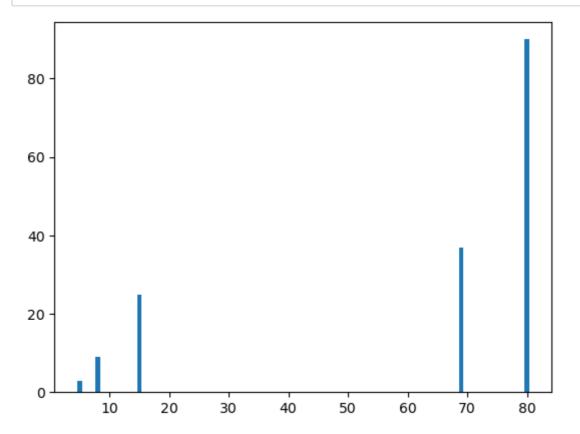
Out[4]: <function matplotlib.pyplot.show(close=None, block=None)>



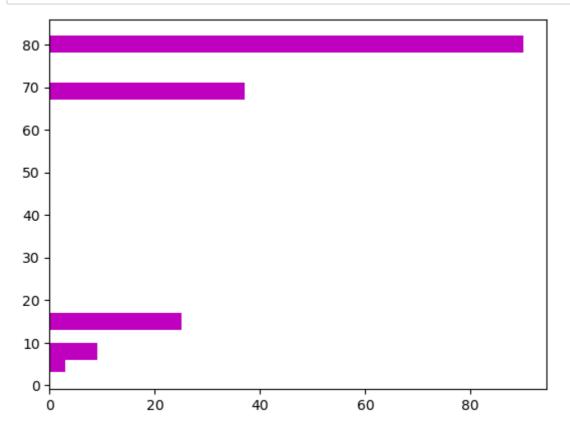
In [13]: plt.scatter(x,y,color='r',s=20,marker="*")#s=size,use marker for athoer shap
plt.scatter(x1,y1,s=40,alpha=0.3,marker="X") #alpha use for the opacity for
plt.show()



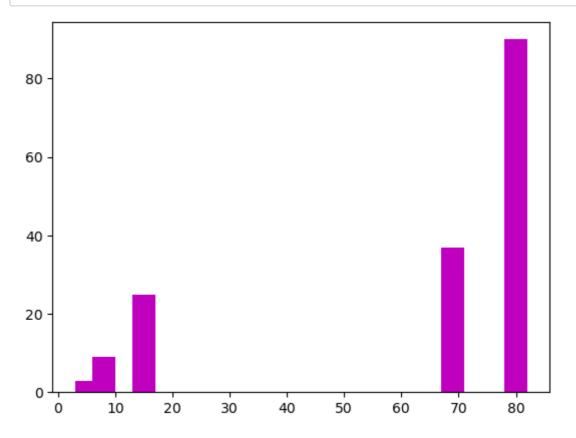
In [15]: plt.bar(x,y)
plt.show()#for vertical



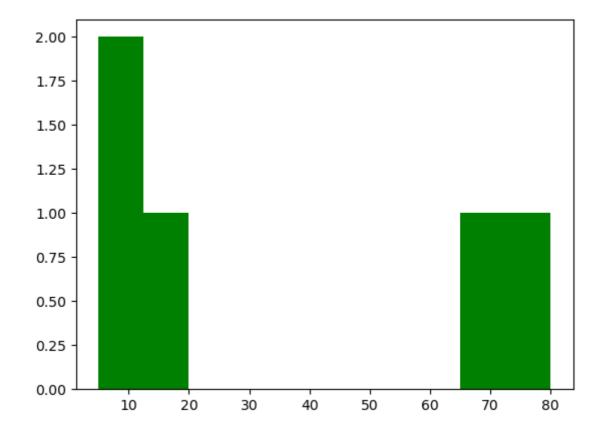
In [25]: plt.barh(x,y,color='m',height=4)
plt.show()#for horizontal



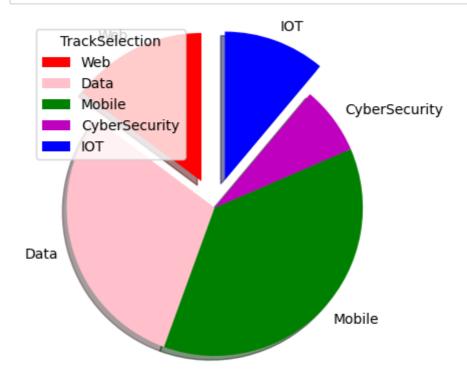
```
In [21]: plt.bar(x,y,color='m',width=4)
plt.show()
```



In [27]: plt.hist(x,color='g') #is the specific column



```
In [53]: #pie chart ....
    track_stud=np.array([20,40,50,10,15])
    track_name=np.array(["Web","Data","Mobile","CyberSecurity","IOT"])
    ex=[0.2,0,0,0,0.2]
    c=['r','Pink','g','m','b']
    plt.pie(track_stud,labels=track_name,startangle=90,explode=ex,shadow=True,coplt.legend(title="TrackSelection",loc='upper left')
    plt.show()
```



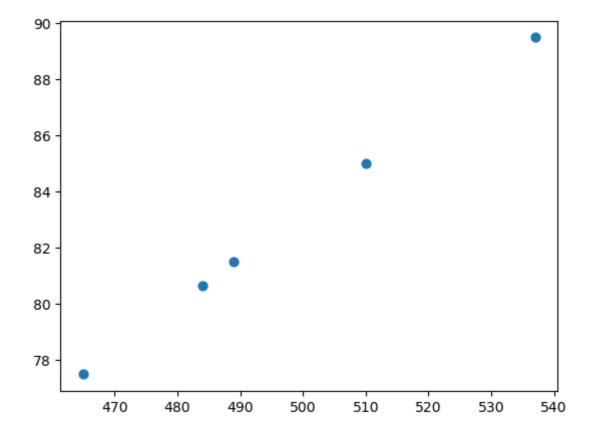
In [54]: studentdata=pd.read_csv('studentdatabasem.csv')
 studentdata

Out[54]:

	Unnamed: 0	Sr.No	StudentName	CCN	ws	cs	MLP	FLUTTER	LARAVEL	Total	Α
_	0 0	1	Bhavdip	95	94	85	74	52	65	465	77.5000
	1 1	2	Digvijay	96	85	87	75	96	45	484	80.6666
	2 2	3	Smit	74	85	96	74	85	75	489	81.5000
	3 3	4	Tejasv	89	98	59	96	75	93	510	85.0000
	4 4	5	Uzzama	82	83	84	94	97	97	537	89.5000

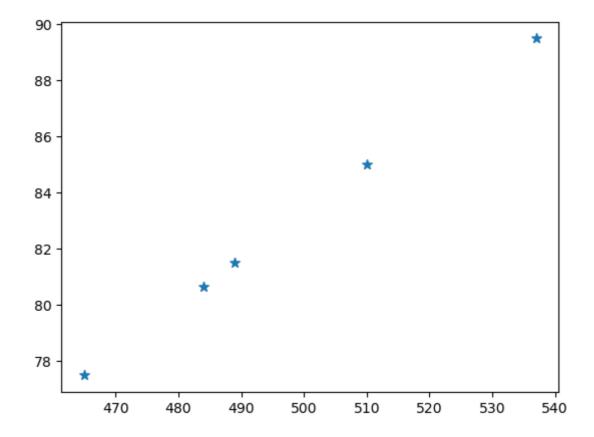
```
In [55]: #plotting the scatter graph using the matplotlib
    plt.scatter(studentdata['Total'],studentdata['Avg'],s=40)
    plt.show
```

Out[55]: <function matplotlib.pyplot.show(close=None, block=None)>



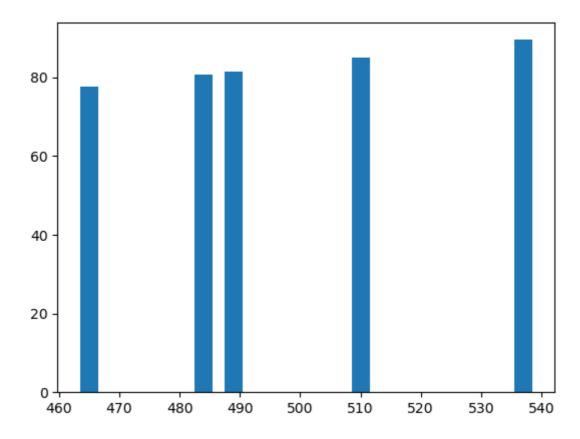
```
In [58]: plt.scatter(studentdata['Total'],studentdata['Avg'],s=50,marker="*")
plt.show
```

Out[58]: <function matplotlib.pyplot.show(close=None, block=None)>



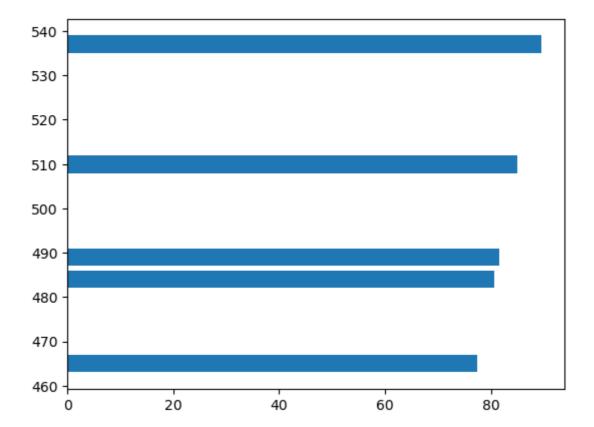
In [64]: plt.bar(studentdata['Total'],studentdata['Avg'],width=3)

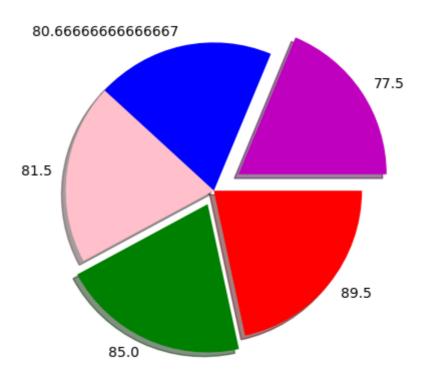
Out[64]: <BarContainer object of 5 artists>



```
In [87]: plt.barh(studentdata['Total'],studentdata['Avg'],height=4)
```

Out[87]: <BarContainer object of 5 artists>





```
In [ ]:
```