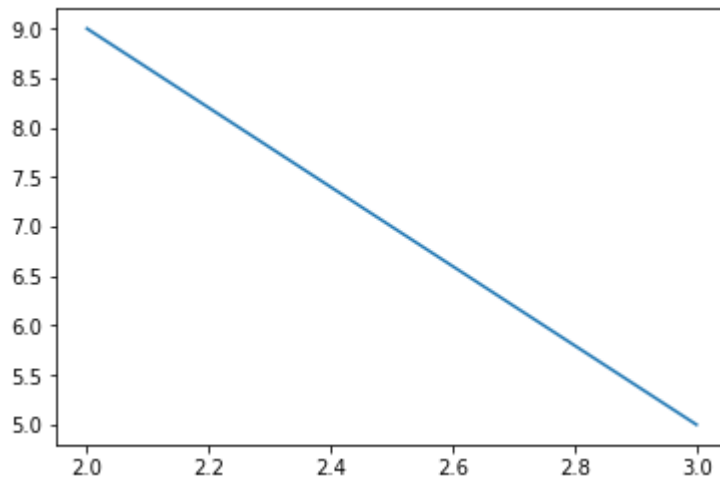


```
import matplotlib.pyplot as plt
```

```
x=[2,3]
y=[9,5]
```

```
plt.plot(x,y)
#plt.show()
```

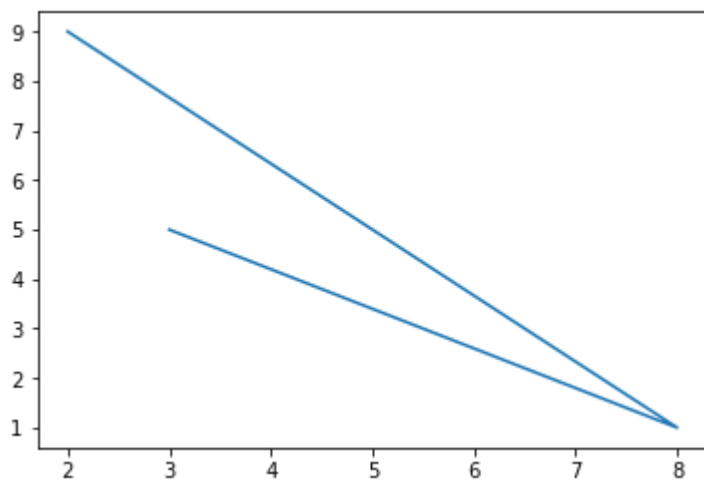
↳ [`<matplotlib.lines.Line2D at 0x7f0f4836c0b8>`]



```
x=[2,8,3]
y=[9,1,5]
```

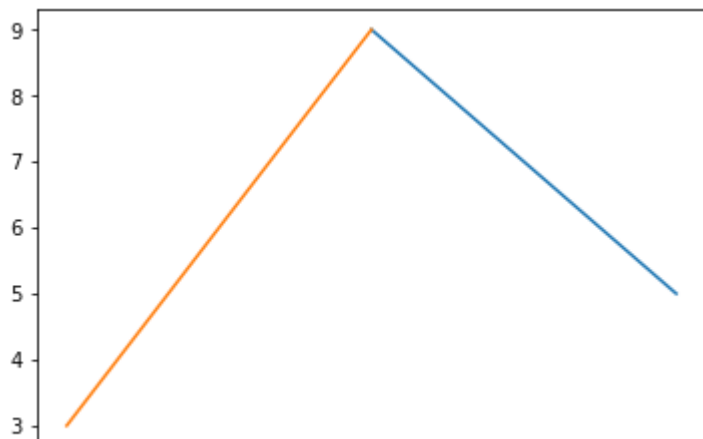
```
plt.plot(x,y)
plt.show()
```

↳

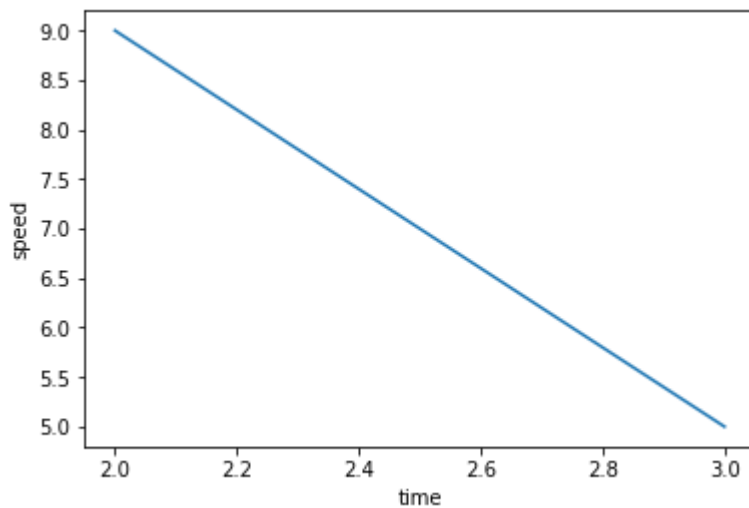


```
x=[2,3]
y=[9,5]
z=[1,2]
m = [3,9]
plt.plot(x,y,z,m)
plt.show()
```

↳

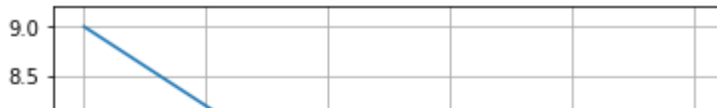


```
x=[2,3]
y=[9,5]
plt.xlabel("time")
plt.ylabel("speed")
plt.plot(x,y)
plt.show()
```

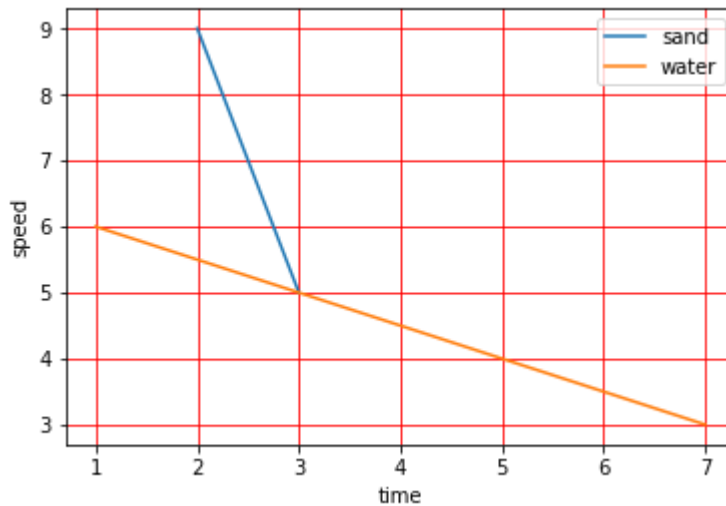


```
x=[2,3]
y=[9,5]
plt.xlabel("time")
plt.ylabel("speed")
plt.plot(x,y)
plt.grid() #to form grid in graph
plt.show()
```





```
x=[2,3]
y=[9,5]
x1 = [1,7]
x2 = [6,3]
plt.xlabel("time")
plt.ylabel("speed")
plt.plot(x,y,label = 'sand')
plt.plot(x1,x2,label = 'water')
plt.grid(color = 'red') #to form grid in graph
plt.legend() # to show the labels with the plot
plt.show()
```

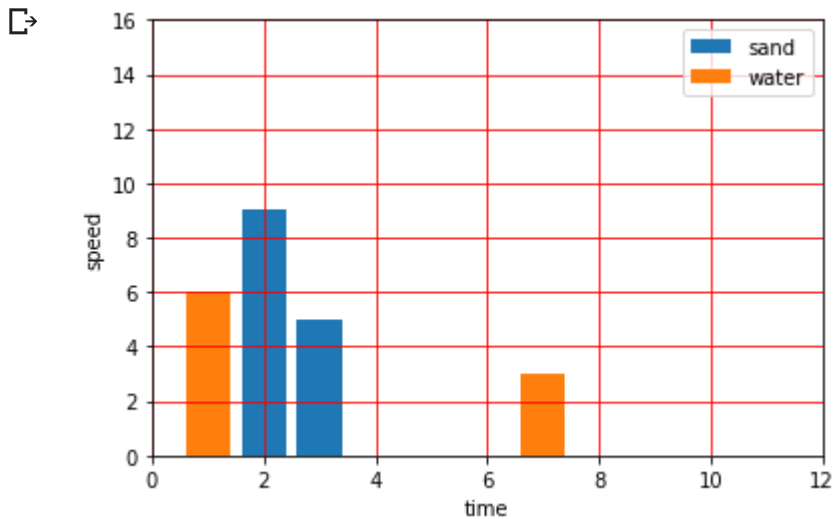


```
x=[2,3]
y=[9,5]
x1 = [1,7]
x2 = [6,3]
plt.xlabel("time")
plt.ylabel("speed")
plt.plot(x,y,label = 'sand')
plt.plot(x1,x2,label = 'water')
plt.grid(color = 'red') #to form grid in graph
plt.legend() # to show the labels with the plot
plt.xlim(0,12) #to show min and max number in x
plt.ylim(0,16) #to show min and max number in y
plt.show()
```

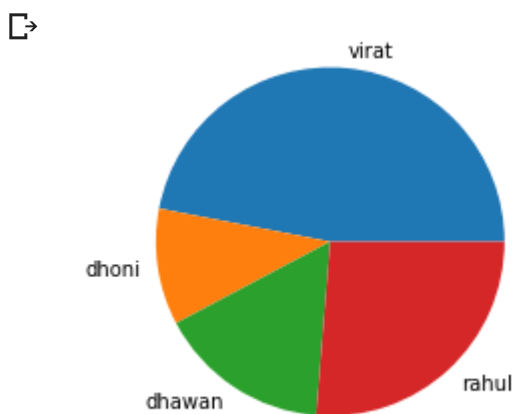




```
x=[2,3]
y=[9,5]
x1 = [1,7]
x2 = [6,3]
plt.xlabel("time")
plt.ylabel("speed")
plt.bar(x,y,label = 'sand')
plt.bar(x1,x2,label = 'water') #plot the bar graph
plt.grid(color = 'red') #to form grid in graph
plt.legend() # to show the labels with the plot
plt.xlim(0,12) #to show min and max number in x
plt.ylim(0,16) #to show min and max number in y
plt.show()
```

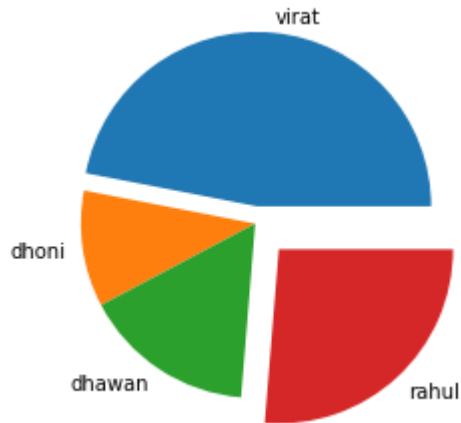


```
player=['virat','dhoni','dhawan','rahul']
runs = [100,23,34,56]
plt.pie(runs,labels=player) #to draw a pie chart
plt.show()
```



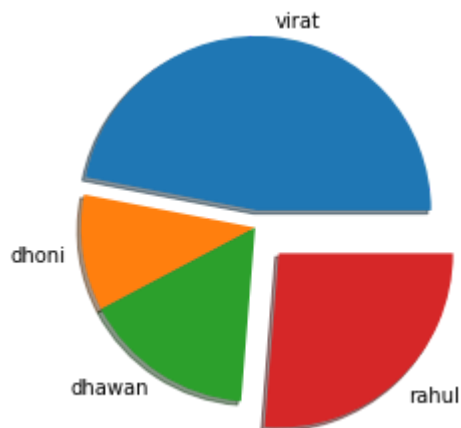
```
exp=[0.1,0,0,0.2]
plt.pie(runs,labels=player,explode=exp) #to separate the part of the pie chart
```

```
↳ ([<matplotlib.patches.Wedge at 0x7f0f45929dd8>,
    <matplotlib.patches.Wedge at 0x7f0f45929c88>,
    <matplotlib.patches.Wedge at 0x7f0f45929080>,
    <matplotlib.patches.Wedge at 0x7f0f45881a58>],
 [Text(0.11486814002490671, 1.1944895606103967, 'virat'),
  Text(-1.088056949780018, -0.16165418038332097, 'dhoni'),
  Text(-0.6052128195734137, -0.918540931599675, 'dhawan'),
  Text(0.881208106444074, -0.9557574342568569, 'rahul')])
```



```
plt.pie(runs, labels=player, explode=exp, shadow=True) #show the shadow of the slice
```

```
↳ ([<matplotlib.patches.Wedge at 0x7f0f45988b70>,
    <matplotlib.patches.Wedge at 0x7f0f457ad9b0>,
    <matplotlib.patches.Wedge at 0x7f0f45ac14e0>,
    <matplotlib.patches.Wedge at 0x7f0f457f6550>],
 [Text(0.11486814002490671, 1.1944895606103967, 'virat'),
  Text(-1.088056949780018, -0.16165418038332097, 'dhoni'),
  Text(-0.6052128195734137, -0.918540931599675, 'dhawan'),
  Text(0.881208106444074, -0.9557574342568569, 'rahul')])
```



```
plt.scatter(player, runs) #scattered graph
```

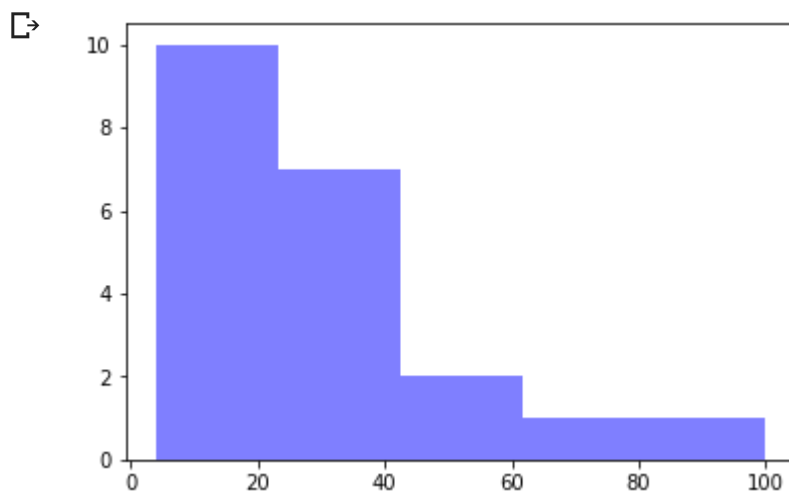
```
↳
```

<matplotlib.collections.PathCollection at 0x7f0f4582c470>



```
import matplotlib.mlab as mlab
#histogram
```

```
x = [21,22,23,4,5,6,77,8,9,10,31,32,33,34,35,36,37,18,49,50,100]
num_bins = 5
n, bins, patches = plt.hist(x, num_bins, facecolor='blue', alpha=0.5)
plt.show()
```



```
plt.pie(runs, labels=player, explode=exp, shadow=True, autopct='%.2f') #percentage in pie chart
```



```
([<matplotlib.patches.Wedge at 0x7f0f45526438>,
 <matplotlib.patches.Wedge at 0x7f0f45526dd8>,
 <matplotlib.patches.Wedge at 0x7f0f455307b8>,
 <matplotlib.patches.Wedge at 0x7f0f454bb198>],
 [Text(0.11486814002490671, 1.1944895606103967, 'virat'),
 Text(0.0670064150145289, 0.6967855770227314, '46.95'),
 Text(-0.5934856089709188, -0.08817500748181144, '10.80'),
 Text(-0.33011608340368015, -0.5010223263270954, '15.96'),
 Text(0.5422819116578916, -0.5881584210811426, '26.29')])
```

