

In [48]:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
```

In [50]:

```
iris=sns.load_dataset('iris')
iris.head()
```

Out[50]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

In [12]:

```
iris.species.unique()
```

Out[12]:

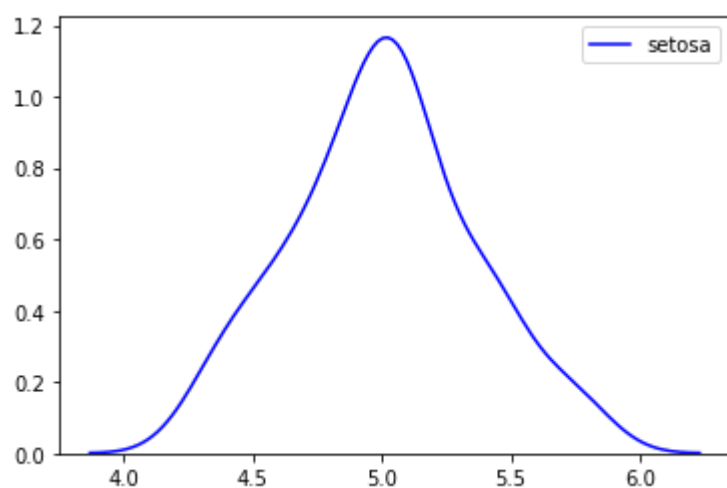
```
array(['setosa', 'versicolor', 'virginica'], dtype=object)
```

In [13]:

```
sns.kdeplot(iris.loc[(iris['species']=='setosa'),'sepal_length'],color='b',label='setosa')
```

Out[13]:

<matplotlib.axes._subplots.AxesSubplot at 0x2c3b0582668>

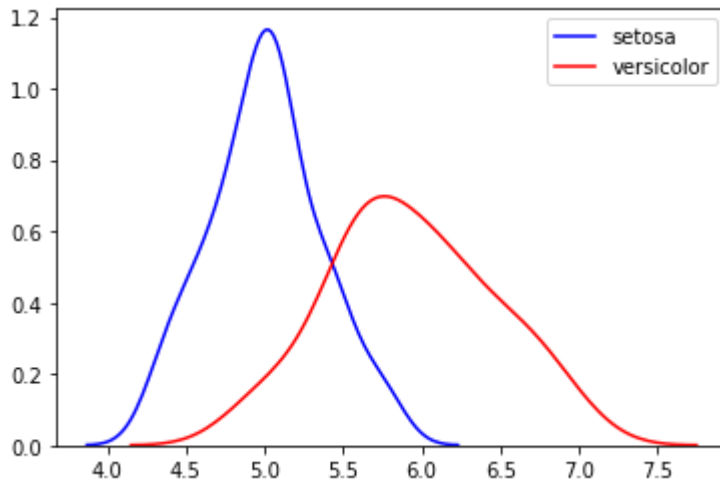


In [17]:

```
sns.kdeplot(iris.loc[(iris['species']=='setosa'),'sepal_length'],color='b',label='setosa')  
sns.kdeplot(iris.loc[(iris['species']=='versicolor'),'sepal_length'],color='r',label='versi
```

Out[17]:

<matplotlib.axes._subplots.AxesSubplot at 0x2c3b0bc4978>

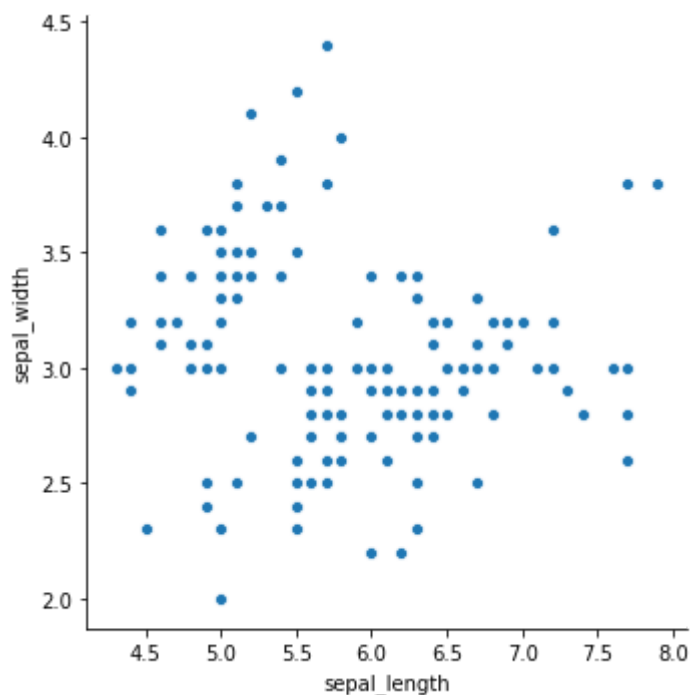


In [18]:

```
sns.relplot(data=iris,x="sepal_length",y="sepal_width")
```

Out[18]:

<seaborn.axisgrid.FacetGrid at 0x2c3b0c34c18>

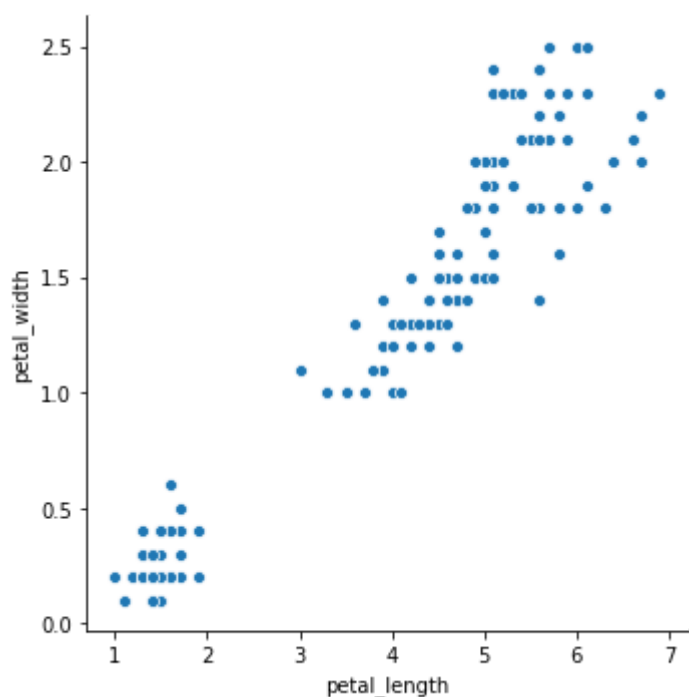


In [19]:

```
sns.relplot(data=iris,x="petal_length",y="petal_width")
```

Out[19]:

<seaborn.axisgrid.FacetGrid at 0x2c3b0c0a668>

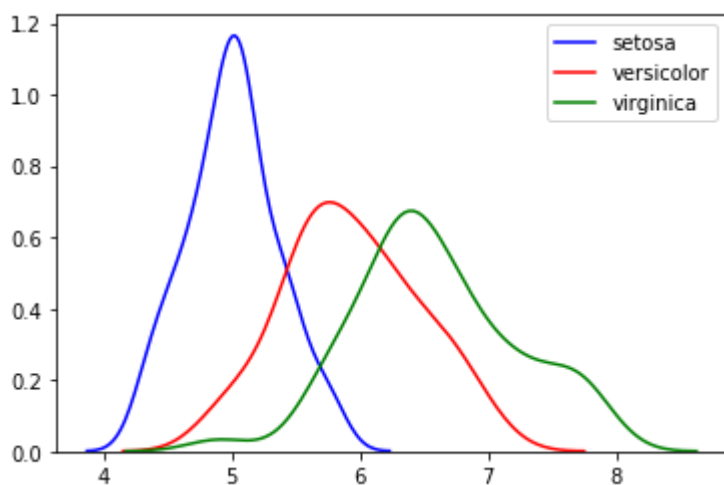


In [20]:

```
sns.kdeplot(iris.loc[(iris['species']=='setosa'),'sepal_length'],color='b',label='setosa')  
sns.kdeplot(iris.loc[(iris['species']=='versicolor'),'sepal_length'],color='r',label='versicolor')  
sns.kdeplot(iris.loc[(iris['species']=='virginica'),'sepal_length'],color='g',label='virginica')
```

Out[20]:

<matplotlib.axes._subplots.AxesSubplot at 0x2c3b0d0fba8>

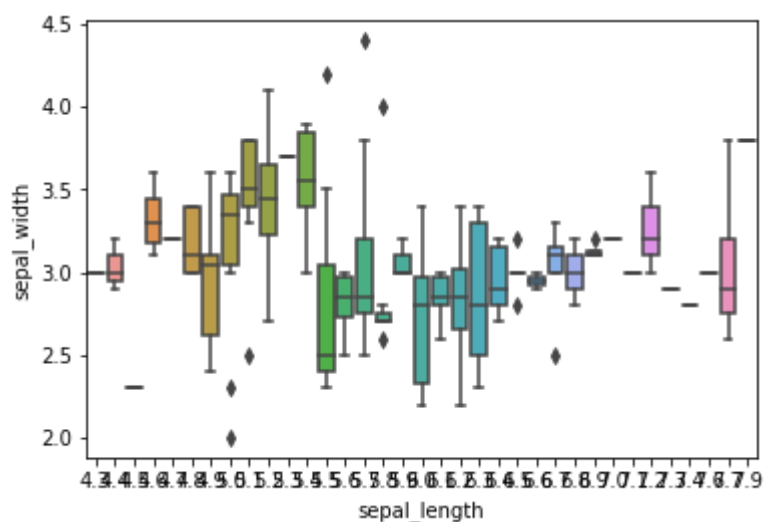


In [22]:

```
sns.boxplot(x='sepal_length',y='sepal_width',data=iris)
```

Out[22]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x2c3b0f9fbe0>
```

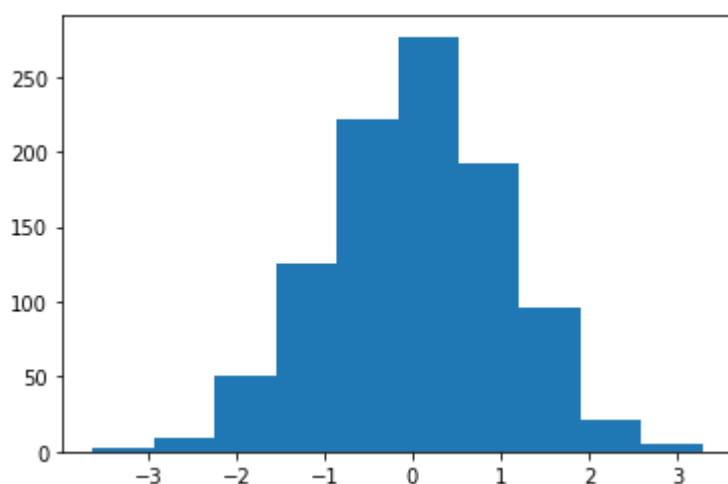


In [30]:

```
iris=np.random.randn(1000)
plt.hist(iris)
```

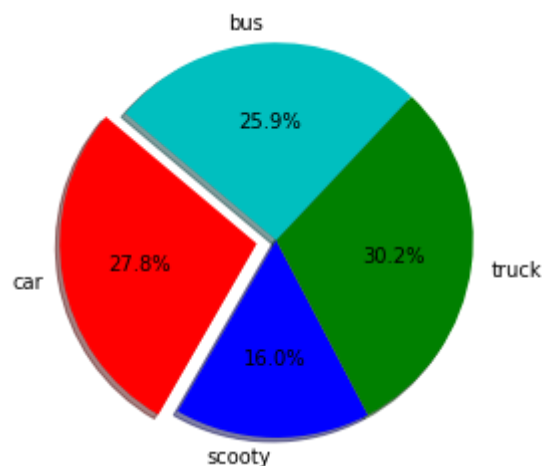
Out[30]:

```
(array([ 2.,  9., 50., 125., 222., 277., 193., 96., 21.,  5.]),
 array([-3.62527162, -2.93370036, -2.2421291 , -1.55055784, -0.85898658,
        -0.16741532,  0.52415594,  1.2157272 ,  1.90729846,  2.59886972,
         3.29044098]),
 <a list of 10 Patch objects>)
```



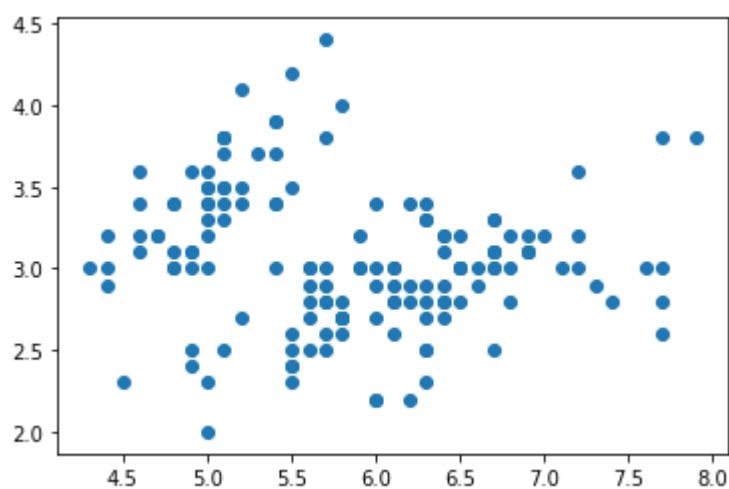
In [38]:

```
labels='car','scooty','truck','bus'  
sizes=[225,130,245,210]  
colors=['r','b','g','c']  
explode=(0.1,0,0,0)  
plt.pie(sizes,explode=explode,labels=labels,colors=colors,autopct='%1.1f%%',shadow=True,sta  
plt.axis('equal')  
plt.show()
```



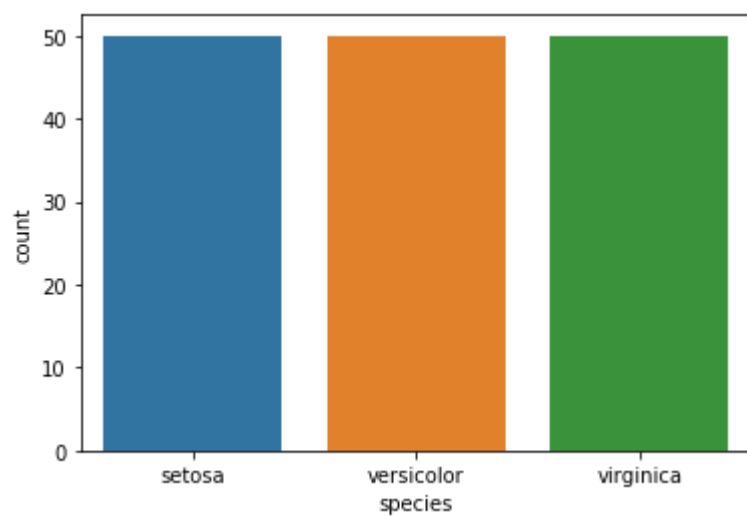
In [51]:

```
from matplotlib import pyplot as plt  
plt.scatter(iris.sepal_length,iris.sepal_width)  
plt.show()
```



In [52]:

```
sns.countplot('species',data=iris)  
plt.show()
```



In []: