In [1]:
```
#PCA
from sklearn.datasets import load_iris
```

In [2]:
```
iris=load_iris()
X=iris.data
y=iris.target
```

In [4]:
```
from sklearn.decomposition import PCA
```

In [6]:
```
pca=PCA()
X_new=pca.fit_transform(X)
```

In [7]:
```
X.shape
```

Out[7]:
```
(150, 4)
```

In [8]:
```
X_new.shape
```

Out[8]:
```
(150, 4)
```

In [11]:
```
pca=PCA(n_components=2)
X_new=pca.fit_transform(X)
X_new.shape
```

Out[11]:
```
(150, 2)
```

In [14]:
```
pca=PCA(.97)
X_new=pca.fit_transform(X)
X_new.shape
```

Out[14]:
```
(150, 2)
```

In [ ]:
```

```