Import some libraries. Right now, we're going to learn about Factor Analysis from scikit-learn. So, we import sklearn, and from sklearn import datasets, from sklearn.decomponent import FactorAnalysis

```
In [1]: import numpy as np
import pandas as pd

import sklearn
from sklearn import datasets
from sklearn.decomposition import FactorAnalysis
```

## We're about to load Iris Datasets

We're about to count the Factor Analysis. To do so, we need FactorAnalysis() function fitting to the variable first. Then, we create DataFrame which parameters is factor

In [13]: factor = FactorAnalysis().fit(x)
 pd.DataFrame(factor.components\_, columns = variable\_names)

## Out[13]:

	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)
0	0.706989	-0.158005	1.654236	0.70085
1	0.115161	0.159635	-0.044321	-0.01403
2	-0.000000	0.000000	0.000000	0.00000
3	-0.000000	0.000000	0.000000	-0.00000