


```
1 import numpy as np
2 import pandas as pd
3 import matplotlib.pyplot as plt
4 import seaborn as sns
```

```
1 data=pd.read_csv('/content/Iris.csv')
```

```
1 data.head()
```



	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

```
1 from sklearn.preprocessing import LabelEncoder
2 le=LabelEncoder()
3 data['Species']=le.fit_transform(data['Species'])
```

```
1 from sklearn.model_selection import train_test_split
2 x=data.drop(['Species','Id'],axis=1)
3 y=data['Species']
4 x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=42)
```

```
1 from sklearn.cluster import KMeans
2 km=KMeans(n_clusters=3)
3 km.fit(x_train)
```



KMeans ⓘ ?

KMeans(n_clusters=3)

```
1 from sklearn.metrics import accuracy_score
2 accuracy_score(y_test,km.predict(x_test))
```

 0.3333333333333333

```
1 sns.pairplot(data,hue='Species')
```

<seaborn.axisgrid.PairGrid at 0x7e9780fcf970>

