```
#Unsupervised Learning -(Clustering)
#Importing Modules
from sklearn import datasets
import matplotlib.pyplot as plt
# Loading dataset
iris_df = datasets.load_iris()
# Available methods on dataset
print("Methods:\n",dir(iris_df))
# Features
print("\nFeatures:\n",iris_df.feature_names)
# Targets
print("\nTargets: \n", iris_df.target)
#Target Names
print("\nTarget names:\n",iris_df.target_names)
label = {0: 'red', 1: 'blue', 2: 'green'}
# Dataset Slicing
x_axis = iris_df.data[:, 0] # Sepal Length
y_axis = iris_df.data[:, 2] # Sepal Width
# Plotting
plt.scatter(x_axis, y_axis, c=iris_df.target)
plt.show()
```

```
Methods:
 ['DESCR', 'data', 'data_module', 'feature_names', 'filename', 'frame', 'target', 'target_names']

Features:
 ['sepal length (cm)', 'sepal width (cm)', 'petal length (cm)', 'petal width (cm)']

Targets:
 [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Target names:
 ['setosa' 'versicolor' 'virginica']
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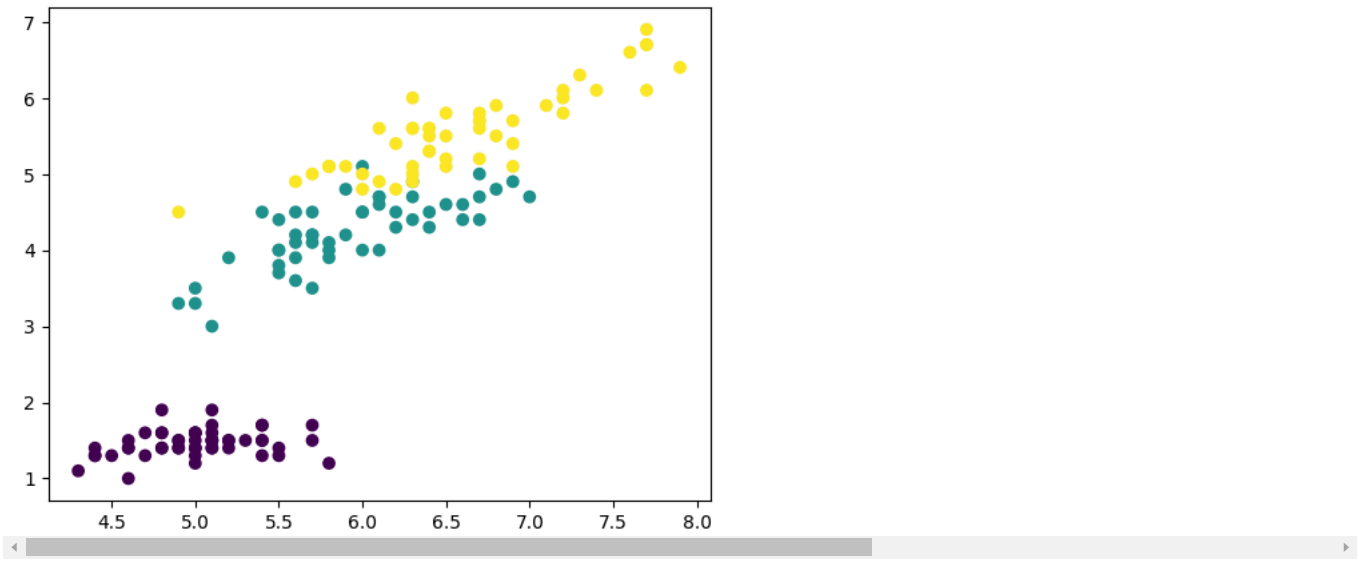
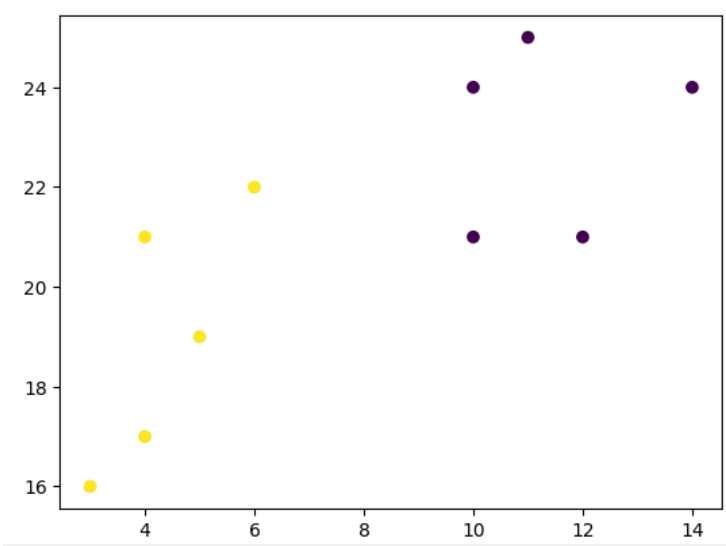



```
#Unsupervised Learning - (K-Means)
import matplotlib.pyplot as plt
from sklearn.cluster import KMeans
x = [4, 5, 10, 4, 3, 11, 14, 6, 10, 12]
y = [21, 19, 24, 17, 16, 25, 24, 22, 21, 21]
data = list(zip(x, y))
kmeans = KMeans(n_clusters=2)
kmeans.fit(data)
plt.scatter(x, y, c=kmeans.labels_)
plt.show()
```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