```
import pandas as pd# visualization
import matplotlib.pyplot as plt# algorithm
from sklearn.cluster import DBSCAN


# import data
df = pd.read_csv("https://raw.githubusercontent.com/uiuc-cse/data-fa14/gh-pages/data/
print(df.head())
```

```
   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
```

```
from sklearn.cluster import DBSCAN
dbscan=DBSCAN()
dbscan.fit(df[["sepal_length", "sepal_width"]])
```

```
▾ DBSCAN
DBSCAN()
```

```
# visualize outputs
colors = dbscan.labels_
plt.scatter(df["sepal_length"], df["sepal_width"], c = colors)
```

```
<matplotlib.collections.PathCollection at 0x7fd36247d9d0>
```