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In [1]: # import packages
import numpy as np
import pandas as pd

# create dataset
x = [[2, 4], [4, 4], [4, 6], [4, 2], [6, 2], [6, 4], [8, 2]]
y = ["Orange", "Blue", "Orange", "Orange", "Blue", "Orange", "Blue"]
```

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In [2]: from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier(n_neighbors=3) #n_neighbors indicates the number of neighbors to consider

# train the algorithm
classifier.fit(x,y)
```

Out[2]: KNeighborsClassifier(n_neighbors=3)

```
In [4]: # predict class for points (6,6)
x_test = np.array([10,2])
y_pred = classifier.predict([x_test])
print(y_pred)

['Blue']
```

In []: