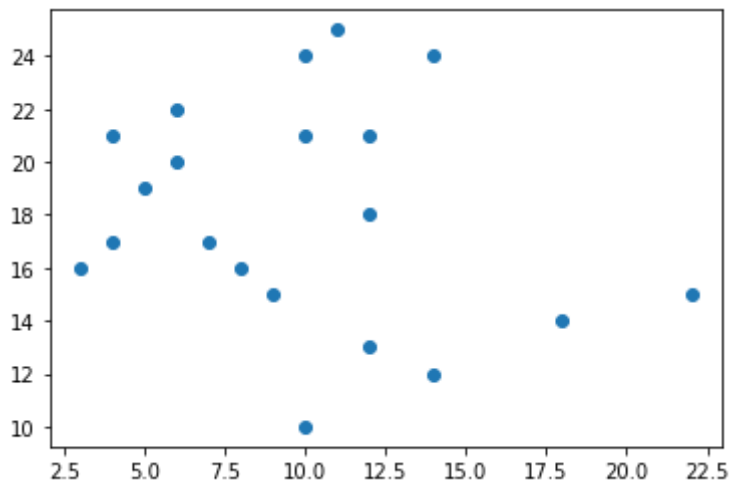


```
import matplotlib.pyplot as plt
x = [4, 5, 10, 4, 3, 11, 14, 6, 10, 12, 6, 12, 7, 18, 22, 12, 10, 14, 8, 9]
y = [21, 19, 24, 17, 16, 25, 24, 22, 21, 21, 20, 18, 17, 14, 15, 13, 10, 12, 16, 15]
```

```
plt.scatter(x, y)
plt.show()
```

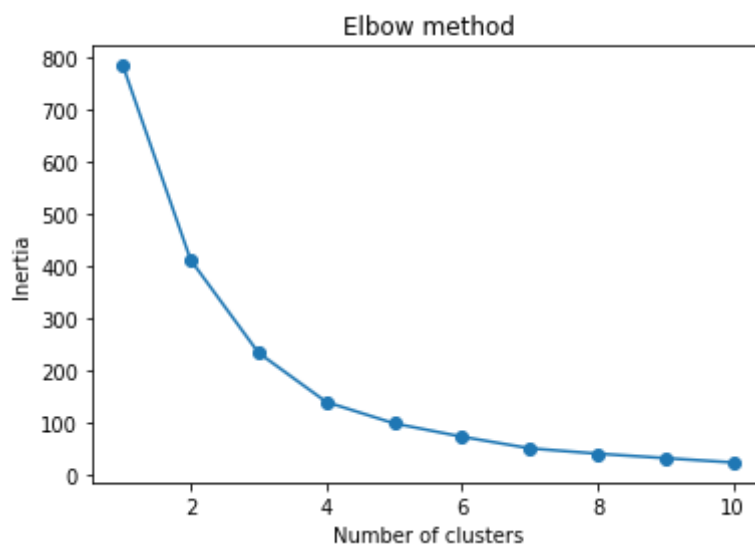


```
from sklearn.cluster import KMeans

data = list(zip(x, y))
inertias = []

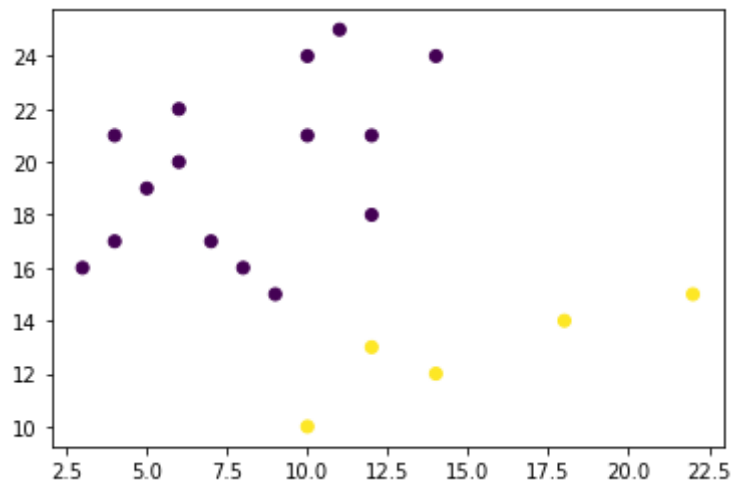
for i in range(1,11):
    kmeans = KMeans(n_clusters=i)
    kmeans.fit(data)
    inertias.append(kmeans.inertia_)

plt.plot(range(1,11), inertias, marker='o')
plt.title('Elbow method')
plt.xlabel('Number of clusters')
plt.ylabel('Inertia')
plt.show()
```



```
kmeans = KMeans(n_clusters=2)
kmeans.fit(data)

plt.scatter(x, y, c=kmeans.labels_)
plt.show()
```



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