```
import matplotlib.pyplot as plt

x = [4, 5, 10, 4, 3, 11, 14, 6, 10, 12]

y = [21, 19, 24, 17, 16, 25, 24, 22, 21, 21]

plt.scatter(x, y)

plt.show()

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4 6 8 10 12 14
```

```
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('inertia')
plt.show

matplotlib.pyplot.show
    def show(*args, **kwargs) -> None

Display all open figures.

Parameters

block : bool, optional
    Whether to wait for all figures to be closed before returning.
```



