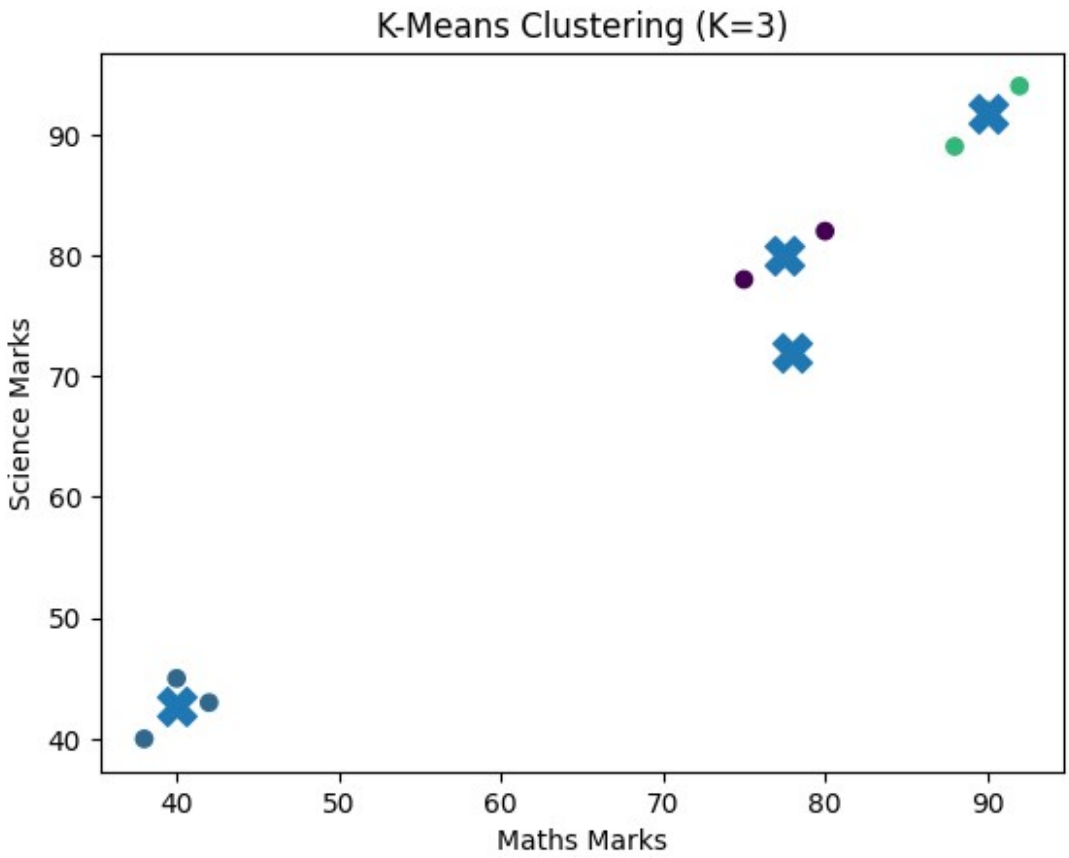
```python
import numpy as np
X=np.array([
    [40,45],
    [42,43],
    [38,40],
    [75,78],
    [80,82],
    [78,72],
    [90,92],
    [88,89],
    [92,94]
])

from sklearn.cluster import KMeans
kmeans=KMeans(n_clusters=4,random_state=0)
kmeans.fit(X)
labels=kmeans.labels_
print(labels)
```

```
[1 1 1 0 0 3 2 2 2]
```

```python
from matplotlib import pyplot as plt
plt.scatter(X[:,0],X[:,1],c=labels)
plt.scatter(
    kmeans.cluster_centers_[:,0],
    kmeans.cluster_centers_[:,1],
    marker='X',
    s=200
)
plt.xlabel("Maths Marks")
plt.ylabel("Science Marks")
plt.title("K-Means Clustering (K=3)")
plt.show()
```


K-Means Clustering (K=3)
Science Marks
Maths Marks
90
80
70
60
50
40
40
50
60
70
80
90