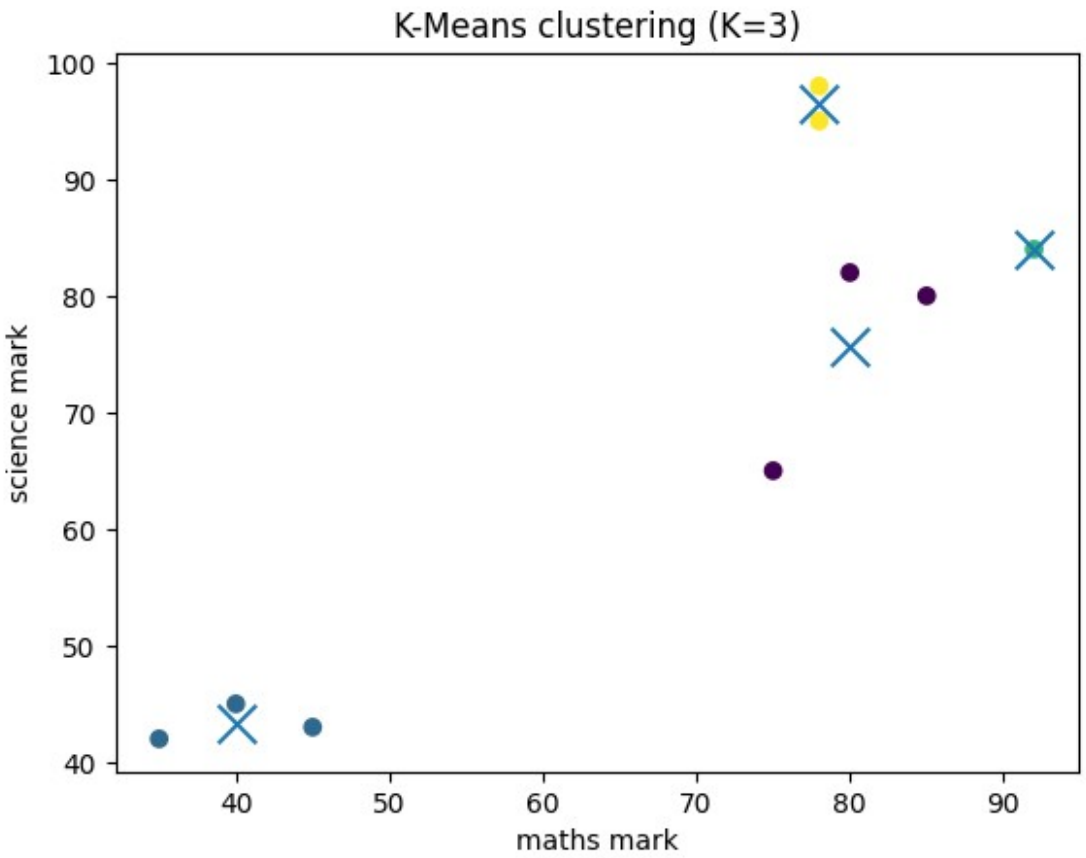
```
import numpy as np
x =np.array([
    [40,45],
    [45,43],
    [35,42],
    [75,65],
    [80,82],
    [85,80],
    [78,95],
    [92,84],
    [78,98]


])
```

```
from sklearn.cluster import KMeans
KMeans =KMeans(n_clusters=4,random_state=0)
KMeans.fit(x)
lables =KMeans.labels_
print(lables)
```

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

```
import matplotlib.pyplot as plt
plt.scatter(x[:,0],x[:,1],c=lables)
plt.scatter(
    KMeans.cluster_centers_[:,0],
    KMeans.cluster_centers_[:,1],
       marker="x",
     s=200
)
plt.xlabel("maths mark")
plt.ylabel("science mark")
plt.title("K-Means clustering (K=3)")
plt.show()
```


K-Means clustering (K=3)
science mark
maths mark
100
90
80
70
60
50
40
40
50
60
70
80
90