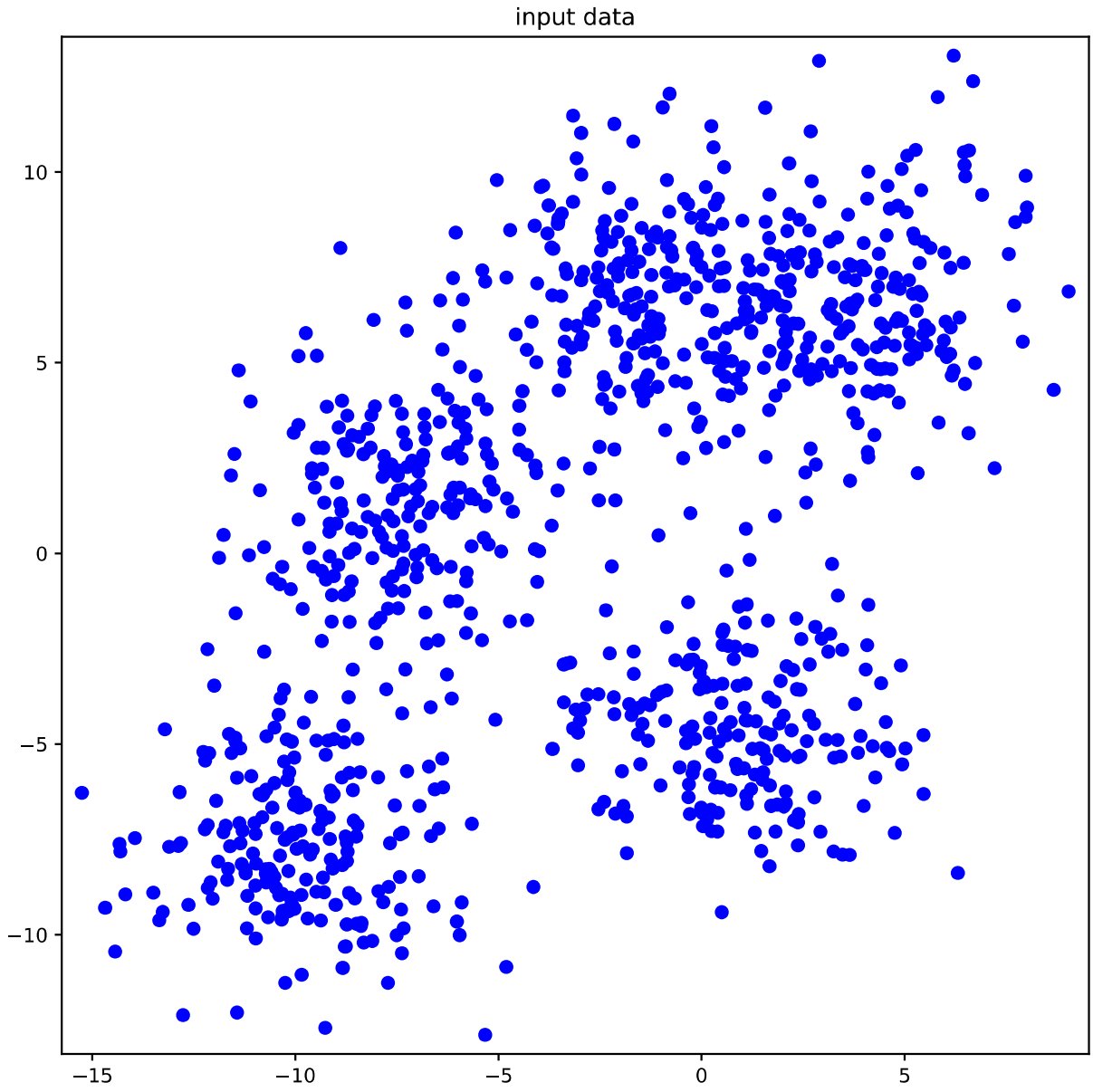
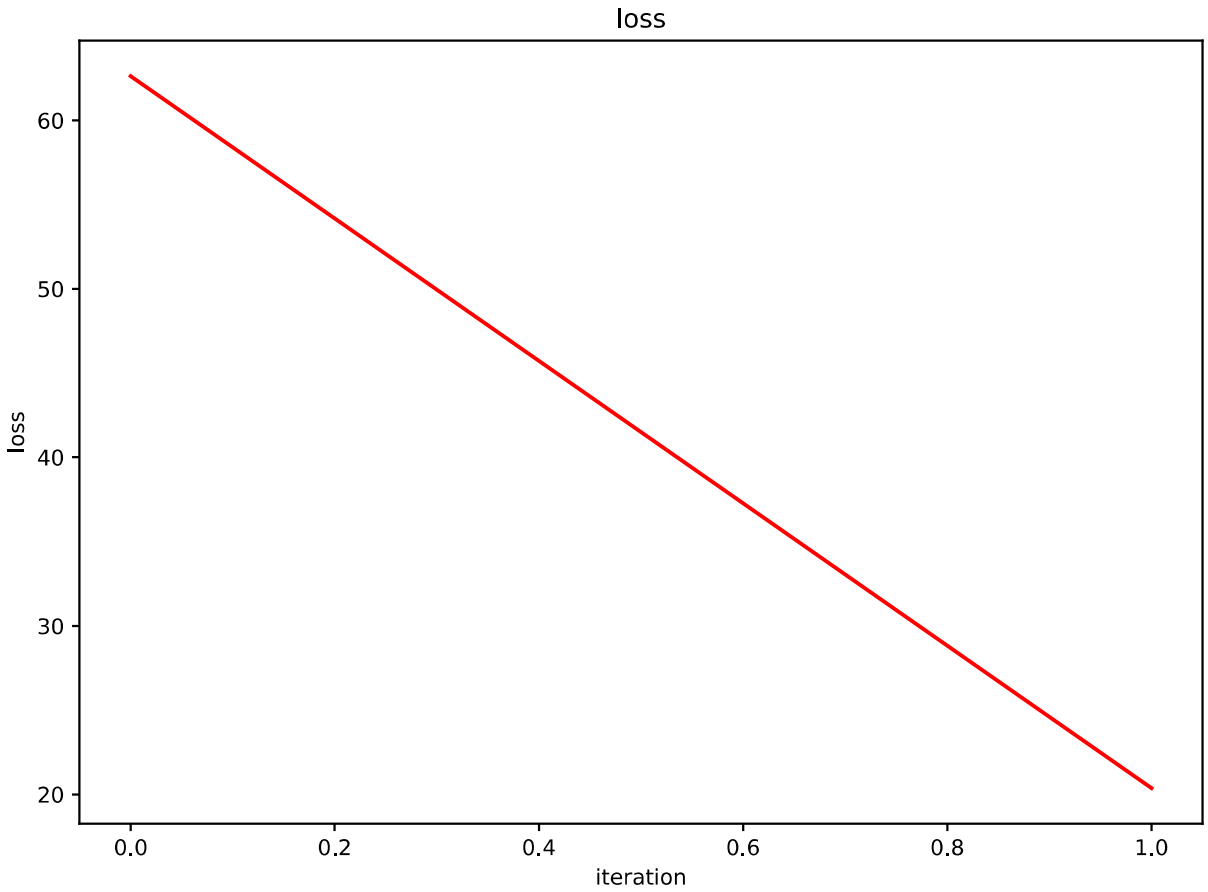


---

1. plot the loss over the iterations with the number of clusters being 5

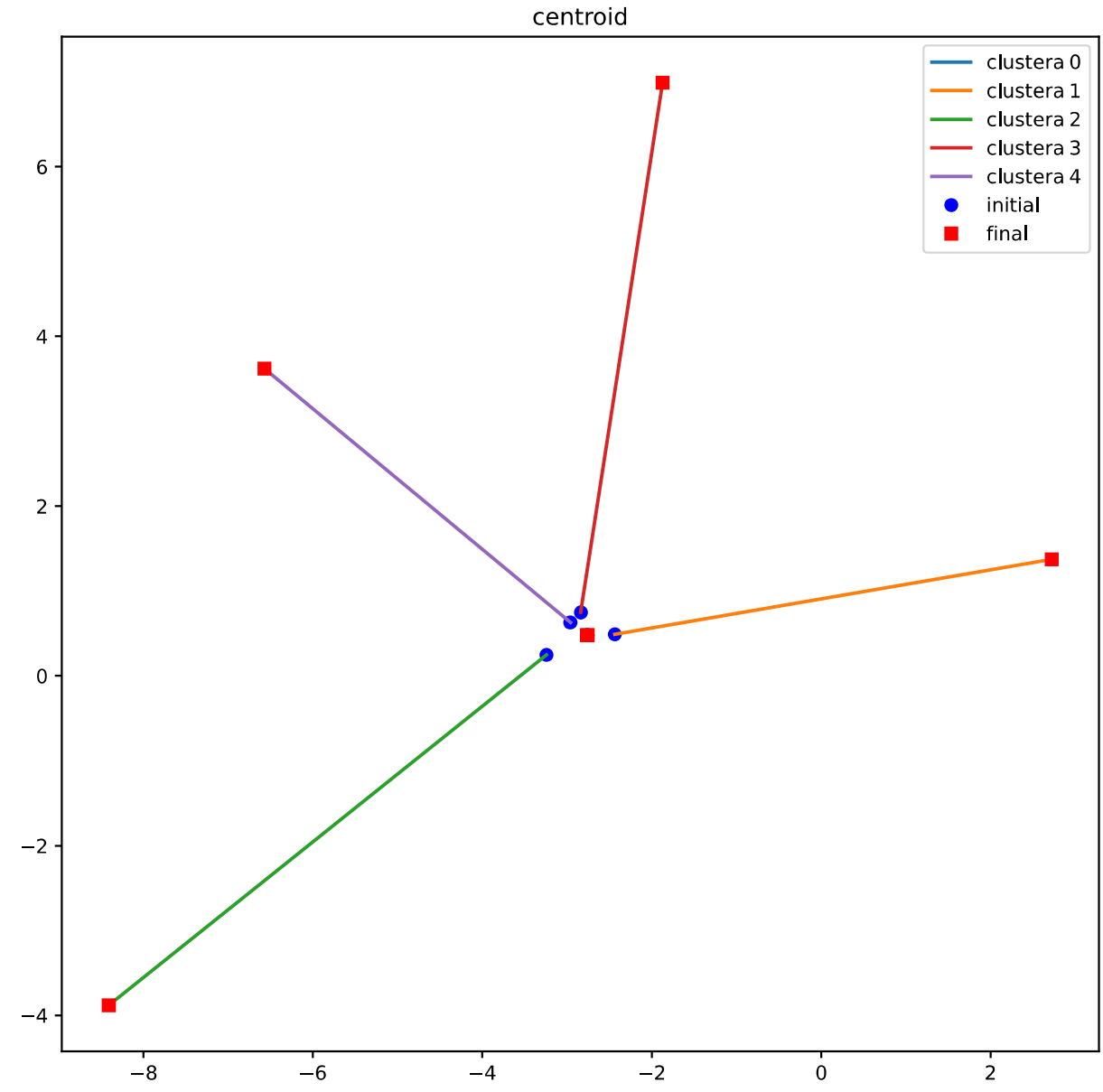
In [88]:
```
plot_loss_curve(loss_iteration)
```



---

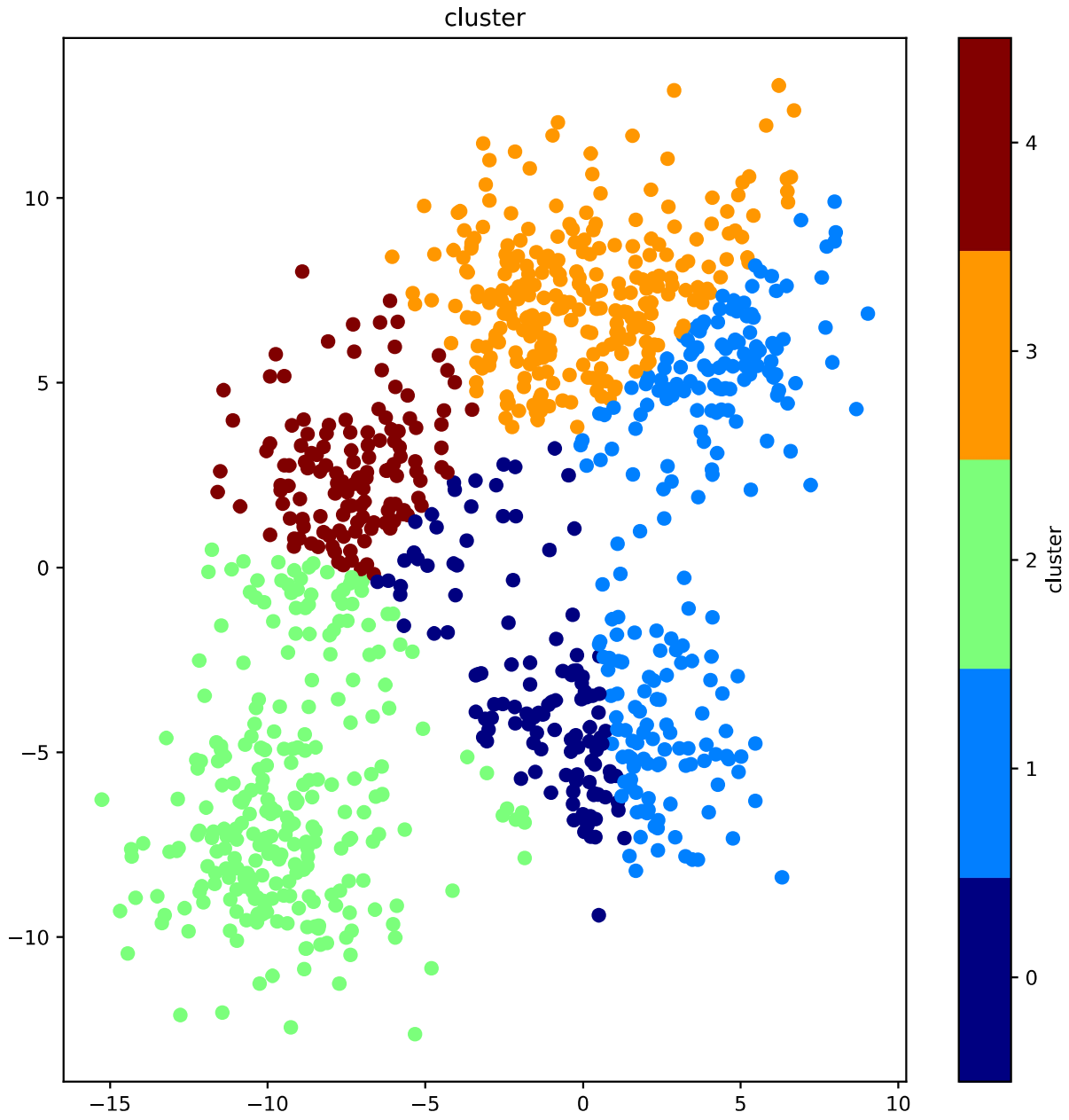
1. plot the trajectory of the centroid for each cluster (blue circle for the initial and red square for the final) with the number of clusters being 5

In [89]:
```
plot_centroid(centroid_iteration)
```



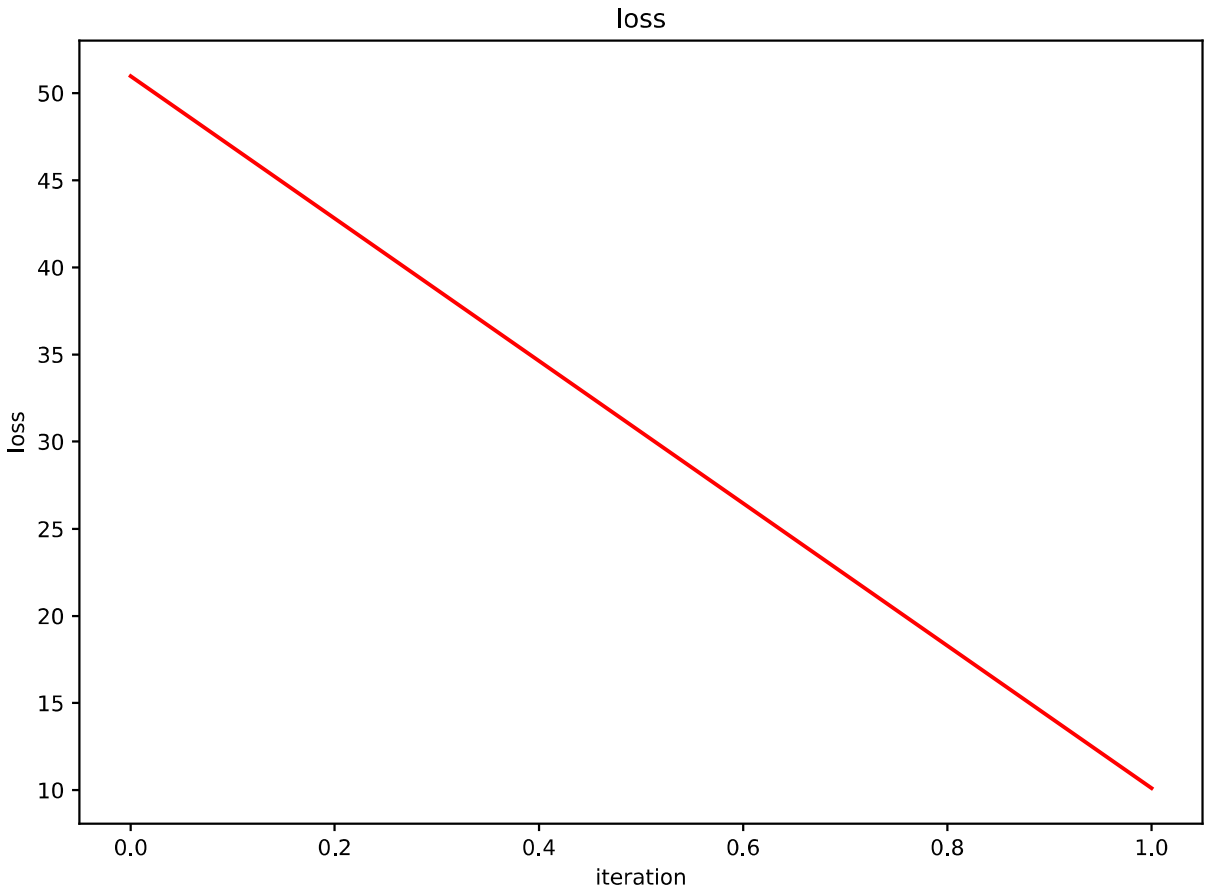
1. plot the final clustering result with the number of clusters being 5

In [90]:
```
plot_cluster(feature, label_feature, label_cluster)
```



1. plot the loss over the iterations with the number of clusters being 10

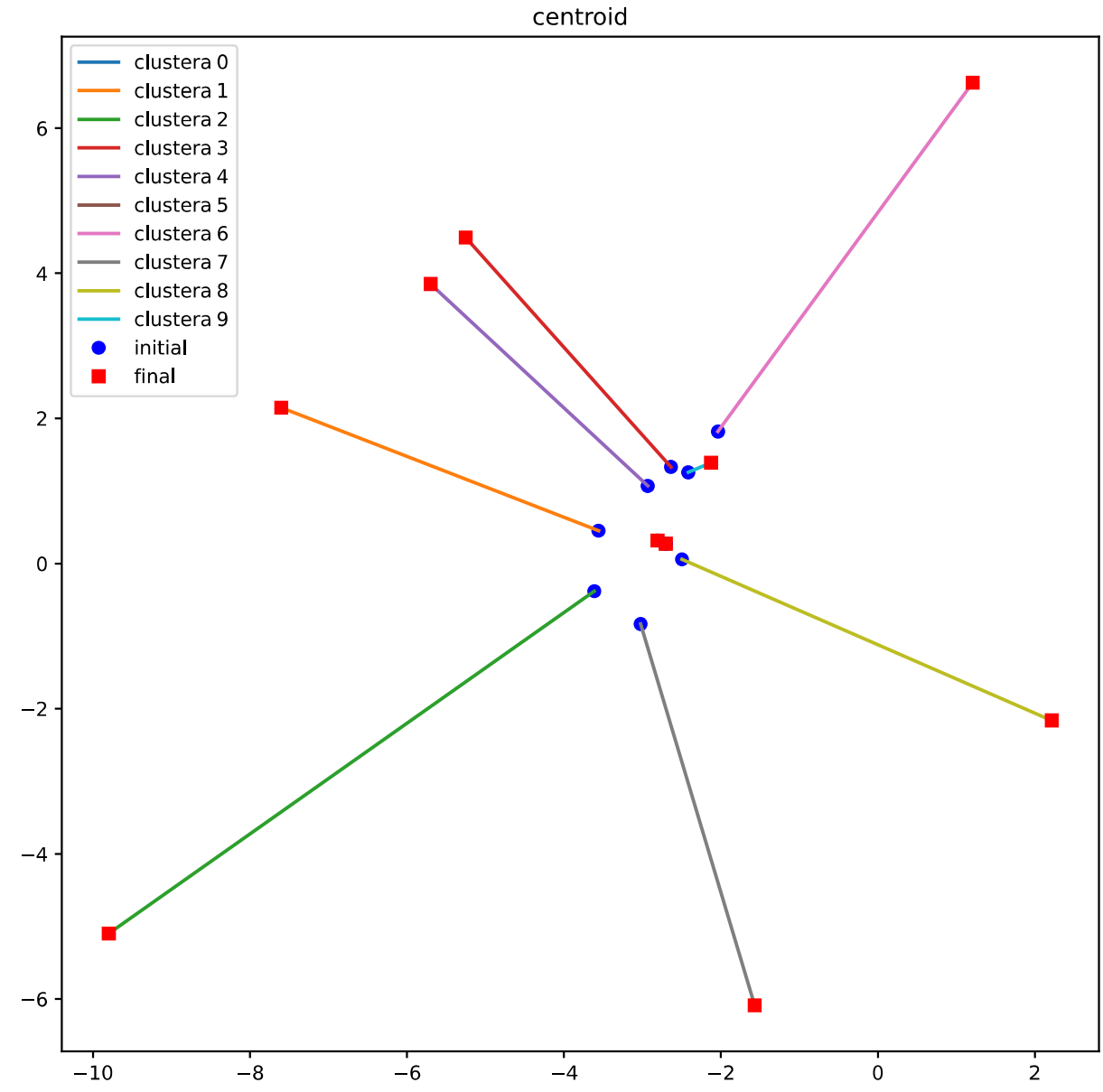
In [97]:
```
plot_loss_curve(loss_iteration)
```



---

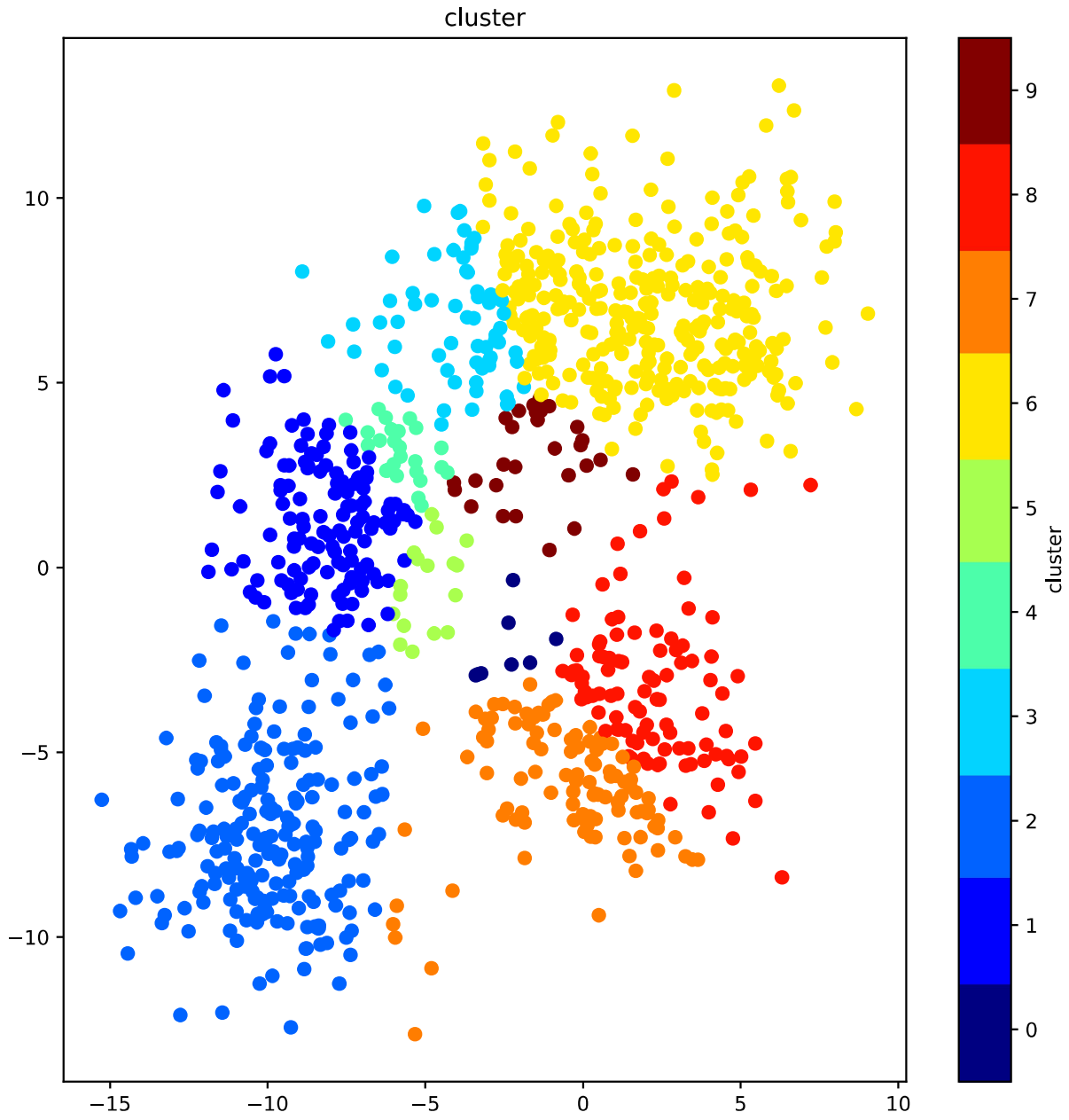
1. plot the trajectory of the centroid for each cluster (blue circle for the initial and red square for the final) with the number of clusters being 10

In [98]:
```
plot_centroid(centroid_iteration)
```



1. plot the final clustering result with the number of clusters being 10

In [99]:
```
plot_cluster(feature, label_feature, label_cluster)
```



In [ ]: