Clustering Implementation

Using k-mean algorithm

```
In [1]: from clustering_practice import *
```

Generating random clusters

We create a random number of clusters, consisted of random number of points in a space

```
In [2]: x_max=10
y_max=10
z_max=10
radius=1
min_groups=3
max_groups=7
k= 2

points = gerenate_random_vectors(x_max,y_max,z_max,radius,min_groups,max_groups)
Random Vector Function Complete. 425 numbers of points was created in 7 group
```

The mean-k algorithm

Performed for k=2 to 10 to find the best clustering

5/31/23, 5:33 PM practice_clustering

Plotting

Based on the best k value

