Experiment No.7

Aim:- To implement K-means clustering algorithm using

python.

code:

import matplotlib.pyplot as plt

from sklearn.cluster import KMeans

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()

data = list(zip(x, y))

print(data)

kmeans = KMeans(n_clusters=2)

kmeans.fit(data)

centroids = kmeans.cluster_centers_

labels = kmeans.labels_

print(centroids)

print(labels)

plt.scatter(x, y, c=kmeans.labels_)

plt.show()



