Implementation of clustering is: No: 14 Date: Dechniques K-Means. Program code: Import python necessary libraries X, y = make - blobs (h - Samples = 300, centers = 4, cluster-std = 0.60, random-state = 0) plt. Scatter (x[;,0], x[:,1]) plt. title ('Dataset') plt. x label ('feature 1') plt. ylabel ('feature 2') plt. show(). Wess = [] for i in range (1,11): *Kmeans = K Means (n. clusters = i, init = k-means+t max_iter = 300, h_init = 10, random_state = 0) K means, fit (x) wess. append (Kmeans. inertia_)

plt. plot (siange (1,11), wess) self. title ('Albow Method') plt. slabel ('Number of clusters') plt. ylabel (' was') plt. Show () Kmeans = KMeans (n_ clusters = 4, "init = 'k-means++', max_iter = 300, h_init = 10, random_state = 0) predy = knears. fit-predict (x) plt. slabel (Feature 1) plt. ylabel ('Feature 2') plt. legend () Luis. plt. Show () Then . It a section it is successfully enemed I the ellert is resilied. output:





