Experiment No: 14 Implementation of chustering Techniques K- Means Aim: To implement a K-Means clustering technique using python language. sousce code: impost numpy as np impost pandas as pd from matplotlib import pyplot as plt from skleas, datasets._sample_generator impost make blobs from skleasn. clusters import kmeans X, Y = make-blobs (n-samples = 300, centers = 4, duster-std= Random-state=0)0.00, pit. scatter (x[:0], x[:,1]) wcss = [] for i in Range (1,11): Rmeans = kMeans (n-clusters=1, init = k-means++1) max_îter = 300, n_inît = 10, random_state = 0) Rmeans. git (X) wess append (Ameans, inestia) plt. plot (Range (1,11), wess) pet litle ('Flbbw method') plt. xlabel ('Number of clusters') pet ylabel ('Wess') plt. show() Rmeans = temeons (n_clusters = 4, init = 'k-means++' max-itex = 300; init = 10, gandom - state =0)

poled-y = Romeans get-predict(x)
pol scatter (x (:, o), x (:, i))

