① Plot has been provided

Step 1 :- Calculate A
Step 2 : Calculate Normalised Laplacian matrix
Step 3 : Find the second smallest eigen value and eigen vector corr. to it
Step 4 : use the K-means clustering algo on the eigen vector obtained to find 2 clusters.

Step 5 : plot the 2 clusters.

② Plot has been provided
③ Plot has been provided.