DWDM - sem practical

18BCS040

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2) Create a random dataset of 50 elements with x and y using random function between 30 to 100 integers for x and 60 to 150 integers for y. Apply k-means clustering to cluster the data into 3 clusters. Plot the graph and display the results. Use Thinker GUI to Display results:

step: 1
- Generate the random variables of x and y of each 50 attributes using (random. randint).

Step 2:

K - Means clustering
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It is method of vector quantization, originally from signal processing, that aims to partition n observations into k-clusters in which each of observation belongs to the cluster with the nearest mean.

(i) setting no. of cluster = 3

(ii) And calculate centroids.

(iii) Plot the graph.

Step 3

Import tkinter and plot the graph and ~~screen~~ ~~size~~ create window.

Tkinter ~~GUI~~ – is a python standard GUI (graphical User Interface) package. It is the most commonly used toolkit for GUI programming in python.