ERPNO: 09 DATE:

IMPLEMENTATION OF CLUSTER ING. TECHNIQUES K-MEANS

To implement a R- means Mustering technique wing python language · Tinywest koreans from skleaven cluster EXPLANATION · Assign x and Y · call the function kaleans (), · perform scatter operation and display output SOURCE COPE:-Import numpy as mp impout bandas as od form matplot lib imposet pyplot as plt from skharer adatasets import make-blobs ferom Skhaun. Muster Smport KHeans X, y = make-blobs Cn-damples = 300, centers = 4, cluster=000, plt. Lignon (Lig size = (6,6)) DH. scatter (XE;, O], X[:, 1]) plt. tittle ('pata pornts') Plt. Xlabel ('franta 1') plt. Xlabel (' tranter2') plt. Show() WC88=[7 & means = koleans (n. Clusture=1, int = 'k-means+1', tou l'in marge (1, 11): max. ites = 10, nardom state=0) & mean . A+(x) WCSS. append Ck means. (nector) Olt. figure (figsize = (8,6)) plt. plat (mange (1,11), wass, marker = '0') bit, tittle ('Elbow Method')

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plt. &how

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max. Aton = 300, h-init = 10, mardon = 6)

pred-y = K means. & ++- poudict Cx)

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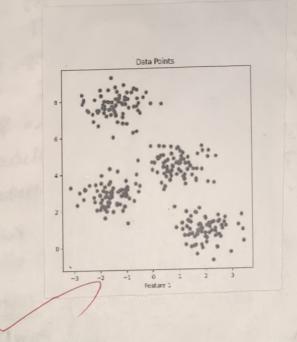
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Result: Thus implement to means clustering technique using putton language is implemented and executed successfully.