Fins: To implement a K-means clustering technique cusing porthon longuage

Code.

import numpy as up import panda as pol

from metaplotlib import poplot as plt

from sklean dataset... samples ... generator
import from splean cluster import K-man.

1, y = make - blobs (n sample = 300, center = 4, Cluster - slot = 0.60, tandom = 0)

PH. Mathen (x [:,0], x [:;1])

WCSSED

for c in mange (1,11);

K means 2) K means (n. Muster =1, unit =

K-means++"

Max- iter = 300, n. iter = 10, sandom=0)

K-means 2 fit (x)

WCSS. append (K-means. intone.)

PH. plot (range (1,11), wess)

PIT. title ("Elbow niethod")

PH. X label ('Chuston')
PH. X label ('Wess')
PH. & label ('Wess')

K means = Kneepers (in -cluster = 4, unit =

'k-mean + 1'

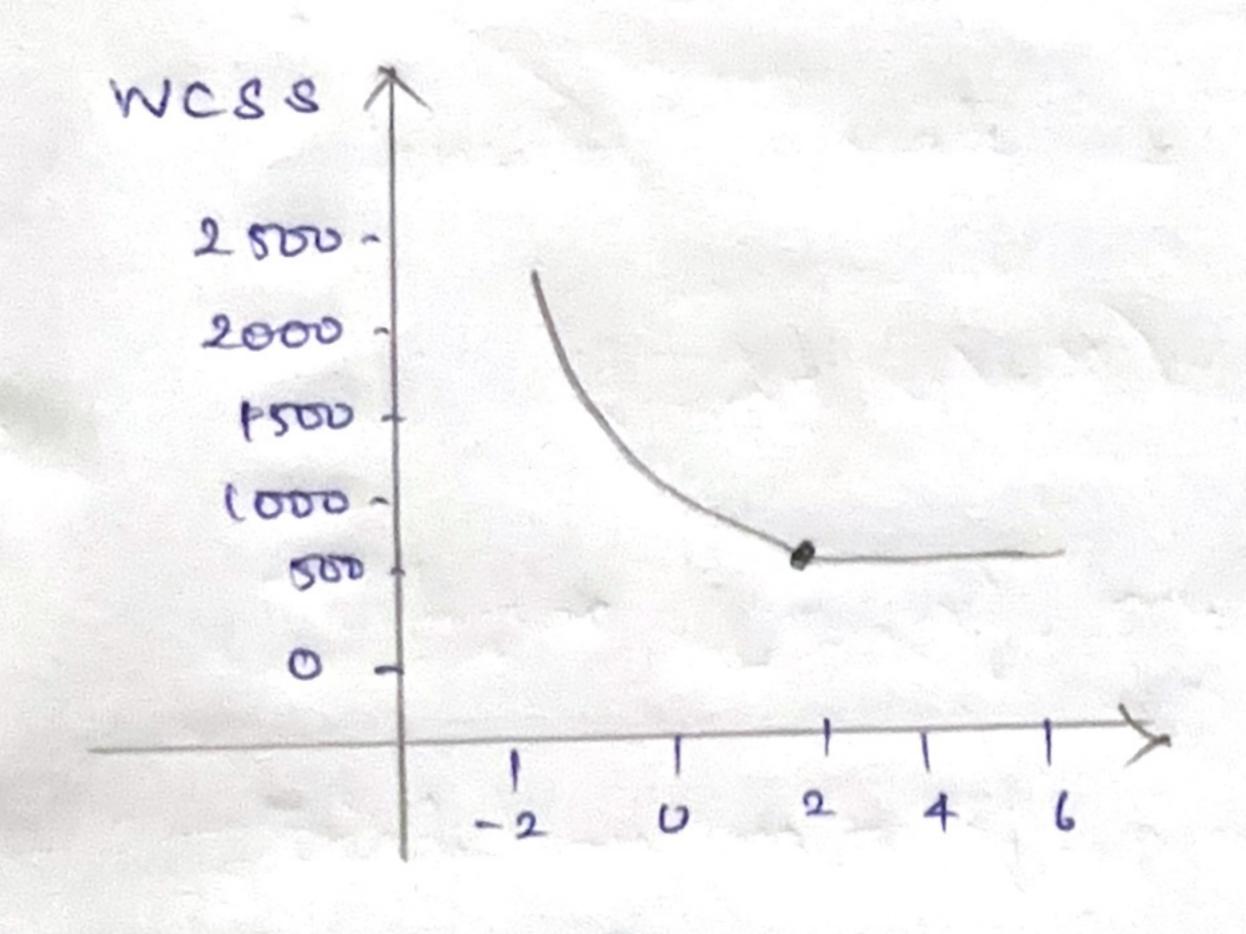
Man - iter = 300, n - itit = 10, nandom - state = 0)

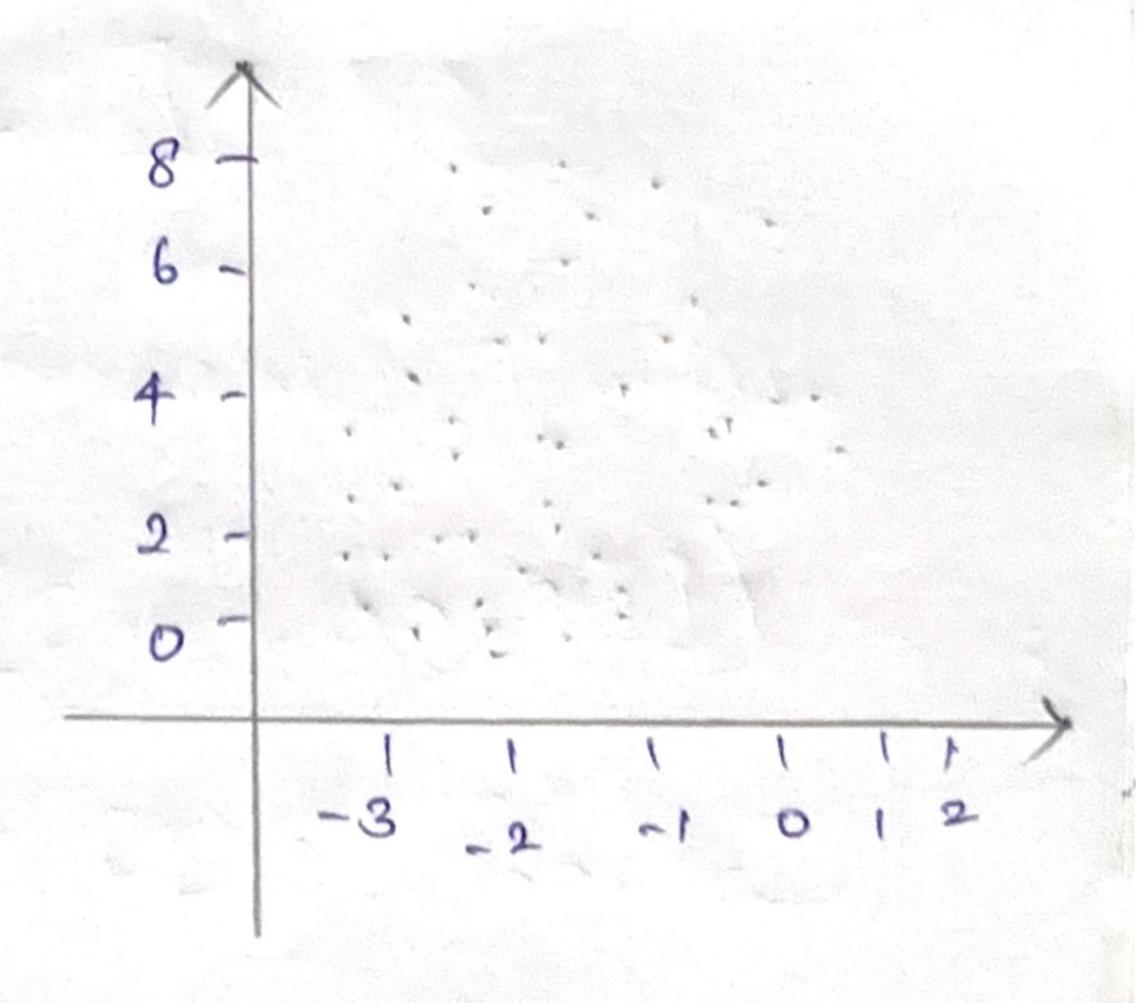
Pried - y. Komesons. fit - priedit (x)

P1+. Scatter (x [:,0], x [:,1])

Plf. Scatter (k means, cluster. cluster. Cluster. -[i, D],
S=30, c='sud')

PIA. shows()





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K means clustering technique wing python language in sociestfully executed X output Verified.