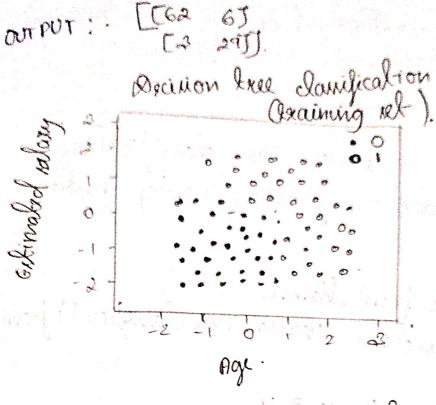
WECISION TREE CLASSIFICATION. Ex. no: 12. solte: To davisy the social Medwork dataset uning occision book analysis source code: peop google colab import doive. douve mount ("/content/gdouve") imposet pandas as pol import nuryey as ny. unport-matplottils-pyplot on pill-. dataut = pd. sead -civ ( / content/gdrive /my Dive/ Social-Melwork - Adi cm') x = dataset. iloc[:, [2,3]]. values. from illearn model - relection import-leain-tent. y = dataret. iloc [:, -1], valuer. x\_leain, x\_lest, y-leain, y-lest.=. brain-lest-spotet (x,y, let- 128 = 0-25, gandom- state = 0) beom illeans. parprocessing import standard scales 1c = Nambard Scaler () x - train - sc. fit - tramform (x\_ train) x - kert = sc. Lacourform (x - kert) grom sleleann. Lee imposet Decision Tree Clauisier Danifier = Decinion Tree Clarifier (icriterion =

gandon\_state =0)

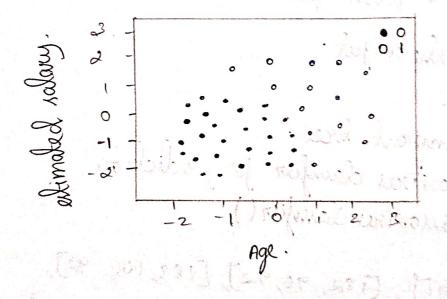
Danissier. Pil (r-leain, y-leain) es-josed = clarifier poudict (x-lest). from albarn nebuics import confusion - matrix.

an = confusion - matrix (y-text, y-pood). point (cm). from allown. melvics in mort-conjuion\_matrix an & ret, y-ret = a-brain, y-train x, x2 = np. nuligied (np. covarge (start= (x=xel-[:, 0]. nun()\_ 1- Nop = X- W- [: 0] - mano (:) +1 > Negri=0.01) nprovirange ( start = x - iet-[:, 1] min () 1- log = x-ul-[:]. more ()+1, leg=0.01) plt-contourf (x, x2, danifier. predict (np. avoir ([XI. faire (). K2. xaix ()]). T). genhapre ( x, . shape), alpha = 0.75, cmap = Liked Colonmap (('sed', 'green')))

filt xlim (x, min c), x, max()). pll- y lin (x2-min (),x2.mom)) pet . solabl ('Agr') fill- : ylabel ("Purchasi") plt-legendt? pet-show () 



Decision level danification.
(Text set).



RESULT!
The program was incompally executed and the output was voisited.