EXPNOS IMPLEMENTING ARTIFICIAL NEURAL NETWOORKS FOR AN APPULATION USING PYTHON-REGION pin aklean wardi, wardin injou nain iah ihu and interest variettes, import wakes and AIM: To complementing actificial neutral networks for an application in regussion wing bython. one distantes 1. Import necessary abravis (skleam, numby) PS EUDO CODE:-& generale a sugression dataset: -coop samples - wo featous and There is morely that it more - And movie to the data 3. Split the destalet into training and test sils: - training set: 25% of data ( and ) to 10 journess - Test set : 201. gaaru.

- Shyfle the data and set a random seed for reproducability - test set :20% of data. A- Jentialize an MIP regressor miter maximium uteration & SUL 40 1000 6. Train deu signemer on ten maining data C'x-main', y-main'). the sort of warming and 6. compure and display the Resumes for: -Training dota - Tout parte possible of the section of the section of Multiple 1 aution live of the

CODE : from skleam neural network import MP Ragrams from skleain. medel\_selection\_import main\_rost\_split from skleain datasets import wake eigneinm uniport numby as no uniport materiplothib pyplot as plt chipart seabour as end % matplotlib inline Xig = make\_eigneisim (no amples = 1000, noise= 0.05, fearing X. shape 19-shape = (1000,1007, (1000,7) X main, X test, & main, y rest = brain rest speit (X, y, hest single = 0.2, shyple = true, landim state = 42) cy=MLPRegressor (maxiter=1000) of sit (x main , 4 main) peint I'Re Score for training parta = felf. score (Krain) y main my pliat (7 "R2 score for tost Data = 2 cy-score (x heat, y-ket)) R2Sone for training Data = 0. 999,9 89 3761154 967 Rescore for test Data = 0.969927370731587 RESULT:

Thelefore the program is succentrally executeds output is wentlist