PROGRAM import numay as up & Klearn model selection intyph brain test-splie import pasadas as Ad import Standard Scaler sklearn preprocusing import Sequential from tensoflow · Kera · models imports to atgorica from tensor flow. Neras hardons url=" worl of data set" Colemna = [Sepalling th', 'popal width', petallingth, 'class'] ionis data [class] = iris -data [class] map (& Tris- Dears: o, X= ivis-data iloc [,:-]. Values Y= Louis_data [classic]. Values Xtrain, Xtet, Y-train, Y-train-lot spitte, y rest Scalore Standard Scalal X-train = Lator fil transform (Xtorania) X-test = scalar. brandform (Xtest) y main = bo_certosprical (y_train) y-test to_catogorical(y-test) model = Sequental() model. ad d (10, rpul. dimely, activations self) model and of (pensello, achiquismelle)) model. add (Denn (3, activation='softman') model lompile loss= atigorical - crossentopy optimiser = adam's metues = tacony's model (it (x train, s-train, eparte-100), both restricted) loss, averais= modeleavahato, Cx-tost, y, tet) print ('Tes sourcy: Laury 3: 25/5")

28/10/24 EXPNO: SIGHTAN VICINE YELLENSTON 5 Aim: Implement artificial neural neurosts for an application using python. · contains artificial neurons. · The revoions are connected to each other. They are arounged in largeres to constitute a newal network · The data passes through their mutiple layers and gets processed · the supput layer provides output for the network. 2 Start by importing necessary Libraries
2 Load the ivis dataset
3 Spit data Set into toaining and 4. Overte sample formate meterinal settements. For model to training data

6. Check models performance on elata RESULT Thus the program has been

implemented.