Implementation of Deusiantree classification Techniques EXNO: Date To implement a decision has classification Aim : technique for gender classification weing Python. Algorithm. * Define the problem and Data -> Decide on the features (x) to use for -> Assign labels (4) to each in 3 tance in * Initialize the Decision her classifier: -Amport Duis von her Classifier from -> create an instance for Davision tree Sklearn. Hel classifier. > use the fit() method of the decision * Torlin the classifier. tree classifier to brain it on the data. -> pass the features (x) & label (4) as input to fit(). -> use the predict () method of the bained * predict on Newspata model to make predictions on new > grout the new data values for tach feature to predict. * Display the Results: -> Print the predicted label for the new data

from Sklearn. Her import Desision her code: classifier X=[[180,80,44], [165,65, 38], [170,70,40], [155, 50, 36], [160, 55, 37]]. Y = ['Male', 'female', 'Male', 'Female', 'Female'] Ub = Dousson tree classifier () elf = cef o fit (21,4). Prediction = elf. Predict ([[168, 68, 39]) print ("the predicted gender is: " prediction [0]) The predicted gender is: 3 per Male Output ! Thus the program is successfully executed and output is verified.