***Classification using KNN and DT:***

***Classifier-1: K-nearest neighbor(KNN)***

* Fit KNN model:
  + Mdl=fitcknn(X,Y,’Numneighbors’,3)
* Calculate resubstitution loss:
  + rloss=resubloss(Mdl)
* Set up k-fold cross-validation:
  + CVMdl=crossval(Mdl, ‘KFold’, 10)
* Make prediction:
  + Ypred=kfoldPredict(CVMdl)
* Display confusion matrix
  + C=confusionmat(Y,Ypred)

***Classifier-2: Decision tree:***

* Fit DT model:
  + Mdl=fitctree(X,Y)
* Calculate resubstitution loss:
  + rloss=resubLoss(Mdl)
* Set up k-fold cross-validation:
  + CVMdl=crossval(Mdl, ‘KFold’, 10)
* Make prediction:
  + Ypred=kfoldPredict(CVMdl)
* Display confusion matrix
  + C=confusionmat(Y,Ypred)