Submission sheet Assignment IV
TASK 0: warm up
Number of instances:
Number of attributes:
Number of instances in each class: B M
TASK 1: basic k-NN classification
Accuracies (with confidence, where available):
1) Holdout
2) 10-fold cross-validation
3) Leave-one-out
4) 10-fold cross-validation, K=10
TASK 2: data scaling
Accuracy after scaling:
TASK 3: Feature selection
Accuracy after feature selection:
List of relevant attributes:
TASK 4: Combined approaches
Accuracy after rescaling and feature selection:

TASK 5: PCA

How many components are needed to explain 50% of the variance in the data?
Accuracy, varying the number of components:
TASK 6: optimizing the parameters – K
What is the best value for K among the ones you tested?
TASK 7: Decision tree
What is the number of nodes in the tree (min 20 instances per leaf)?
TASK 8: text data
What accuracy do you obtain with a 10-fold cross validation?
Have you found any text preprocessing operators or settings of the classifier leading to a better accuracy? Which ones?
Have you found any text preprocessing operators or settings of the classifier that yo would have expected leading to a better accuracy, but in practice did not help? If ye can you explain why?