HW#1 Report

First, I defined a safe logarithm function to avoid undefined values. I separated feature and label values into 2 subsets which are train and test. I get the class number as K. I get the number of instances as N. Then, I divided the test set into male and female subsets. Using these subsets, I get the mean values by vertically stacking the mean values in y-axis and then taking the transpose. I applied same technique for getting the deviations. I found the frequency of classes to calculate prior probabilities. I defined a score value to calculate the scores by using the following formula which we discussed in lab 1.Text

Description automatically generated with medium confidence

I compare score values for each class in total number of instances. Lastly, I printed out the confusion matrix by comparing original and predicted class labels.