1. Import the ‘admit.csv’ data file into R. Factorize the target variable *admit* and label the levels 0, 1 as ‘Not admitted’ and ‘Admitted’ respectively. Admitted is the positive event.
2. Normalize the GPA, GMAT variables in the data frame.
3. Set the seed and split the dataframe in to 70% train and 30% test set.
4. Use knn with k=5 to predict admit.
   1. Report out-of-sample total error rate of the model by using CrossTable.
   2. Create a ROC plot
   3. Find AUC
5. Use a naïve bayes model to predict admit.
   1. Report out-of-sample total error rate of the model by using CrossTable.
   2. Create a ROC plot
   3. Find AUC
6. Use a logit regression model to predict admit.
   1. Report out-of-sample total error rate of the model by using CrossTable.
   2. Create a ROC plot
   3. Find AUC
7. Use a SVM model to predict admit.
   1. Report out-of-sample total error rate of the model by using CrossTable.
   2. Create a ROC plot
   3. Find AUC
8. Use a neuralnet model to predict admit. Use 2 hidden neurons.
   1. Report out-of-sample performance of the model by using CrossTable.
   2. Create a ROC plot
   3. Find AUC
9. Put ROC curves for all the above models together in a plot and suggest which one you think is the best performing model
10. Which model would you recommend based on CrossTable results? Which one would you recommend based on AUC?