Exercise15

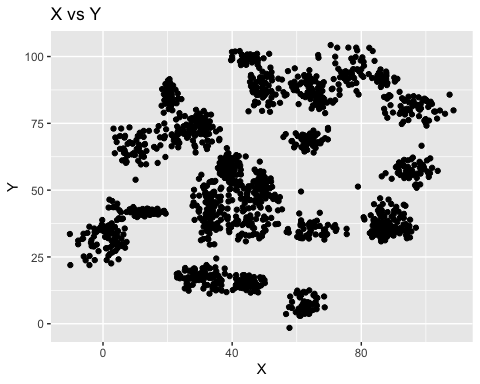
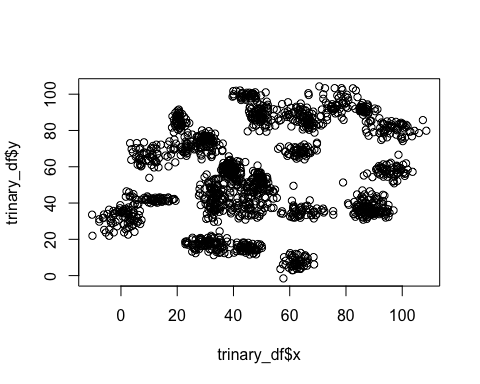
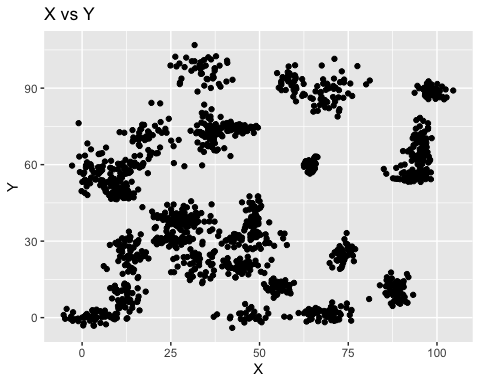
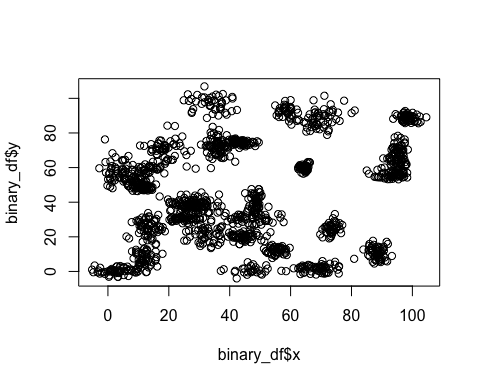
Brett Sutow

10/30/2020

#Setup

## Answer 1

a.Plots below:



## Answer 2

1. Below are the answers for KNN with accuracy for each value of the k. It also shows graphs of the plot where x-axis is the different values of k and y-axis is the accuracy model. Please see below results:

## Answer 3

1. I believe that linear classifiers would work for both the binary and trinary plots. Looking at the data plotted it shows that there would be success using the linear classifiers. Through my understanding these plots would work with a linear type model.

## Answer 2 Results:

## x y  
## 1 0.6930933 0.7861557  
## 2 0.7303243 0.8290011  
## 3 0.7194983 0.8675355  
## 4 0.6523084 0.7674851  
## 5 0.6765989 0.7984207  
## 6 0.7054045 0.8150698

## x y  
## 422 0.8424028 0.1748761  
## 1385 0.1451733 0.4673943  
## 1398 0.1325089 0.4557177  
## 1032 0.2895618 0.4050792  
## 424 0.8297991 0.1790350  
## 753 0.9644700 0.8188329

## [1] 1198 2

## [1] 87.275323281 10.736079917 9.345831490 26.586510050 85.891739866  
## [6] 100.675400046 63.782494111 14.650509130 13.556229189 34.407744012  
## [11] 5.068635941 58.349554211 47.774312598 25.862535857 74.851072920  
## [16] 33.094437768 11.986458904 4.536617625 21.129169217 45.055788024  
## [21] 32.961253130 49.225355242 21.514982308 97.669641573 3.848261674  
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## 2 0.3495902 0.5037685  
## 3 0.3735363 0.4801528  
## 4 0.3605825 0.4041591  
## 5 0.3779910 0.4442837  
## 6 0.3708747 0.4326334

## x y  
## 1196 0.1957338 0.6502182  
## 17 0.3762390 0.4815094  
## 745 0.2966591 0.6968390  
## 383 0.5340695 0.4706818  
## 1086 0.6040497 0.8678192  
## 200 0.3535368 0.7199135

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