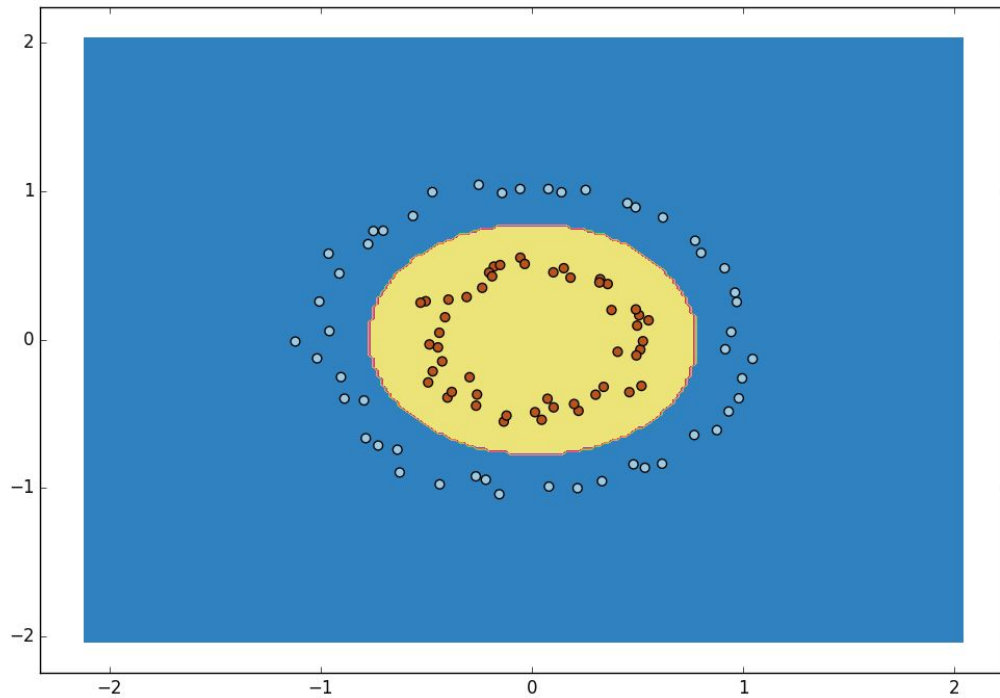


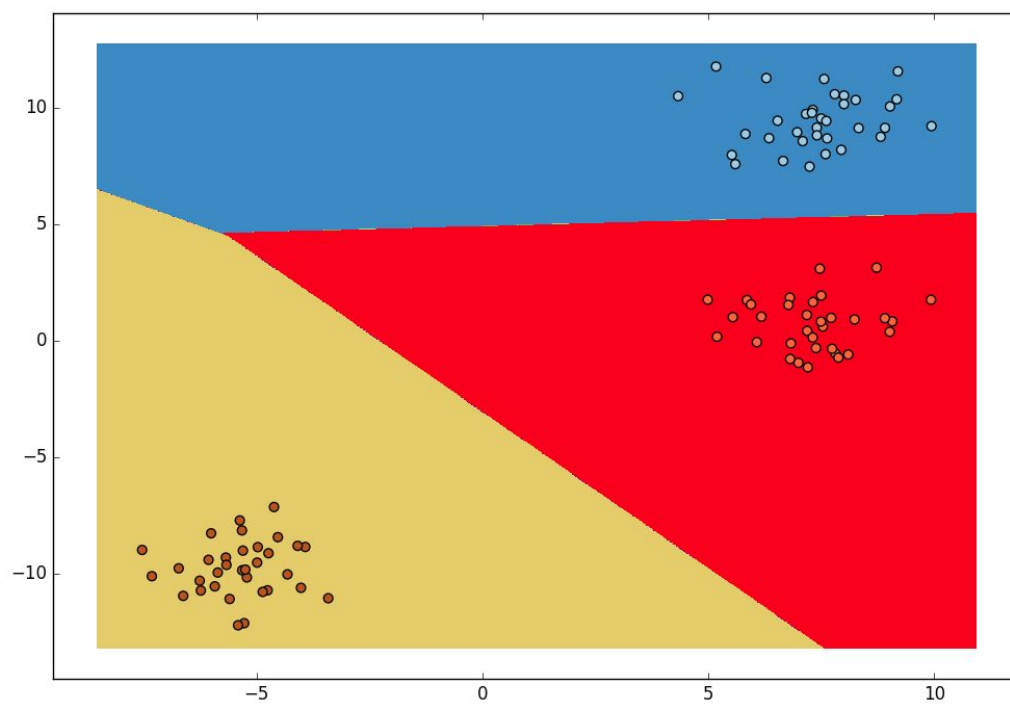
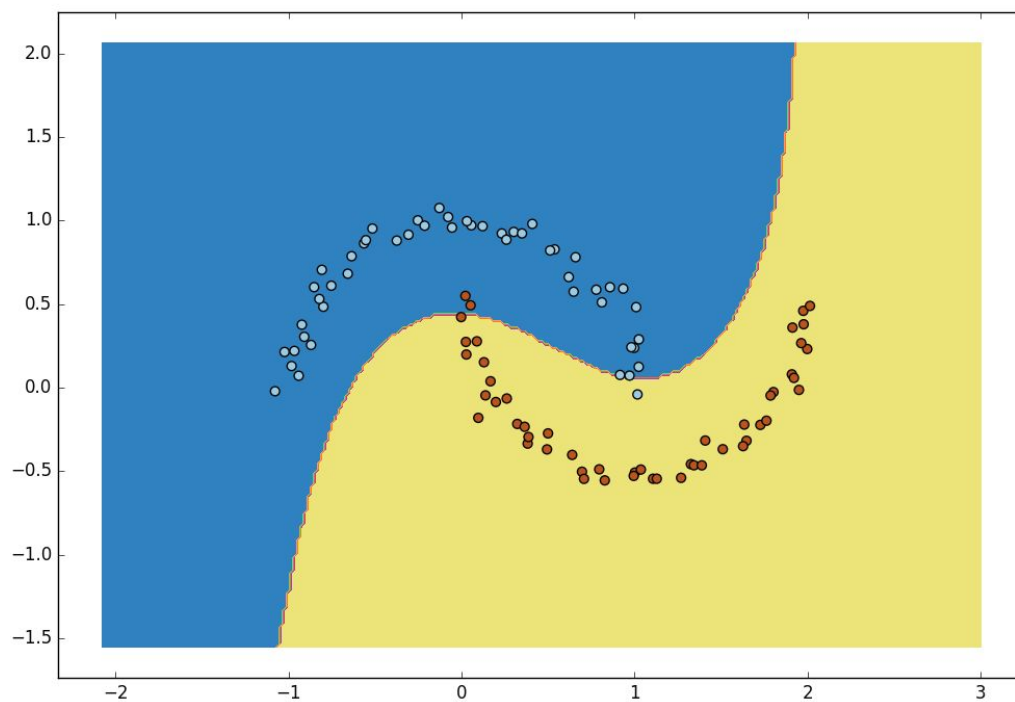
# Analysis

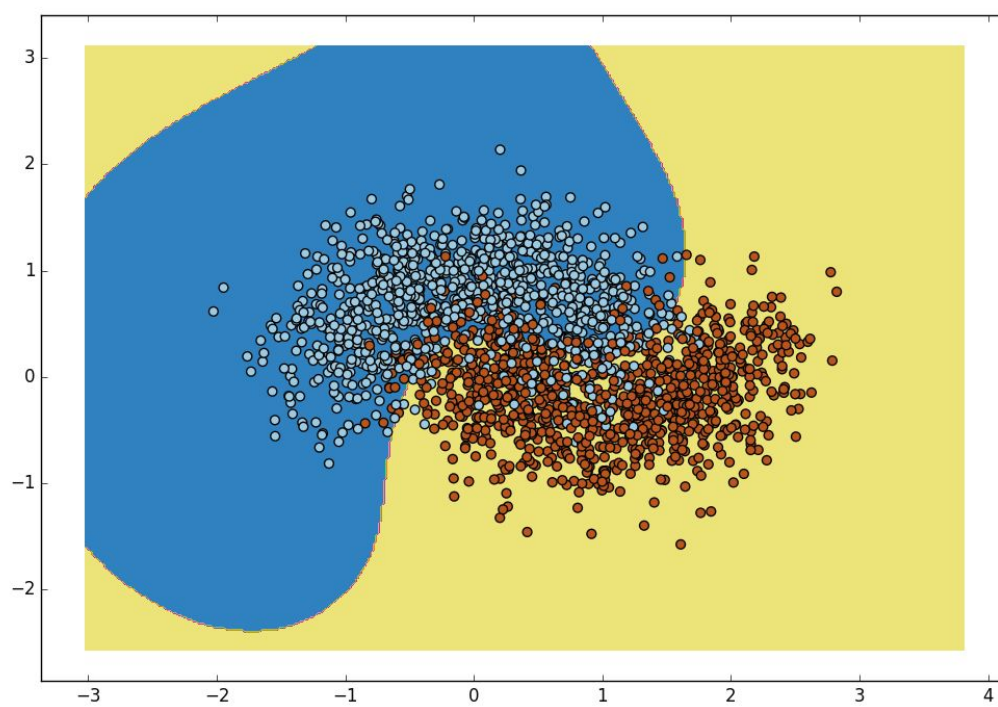
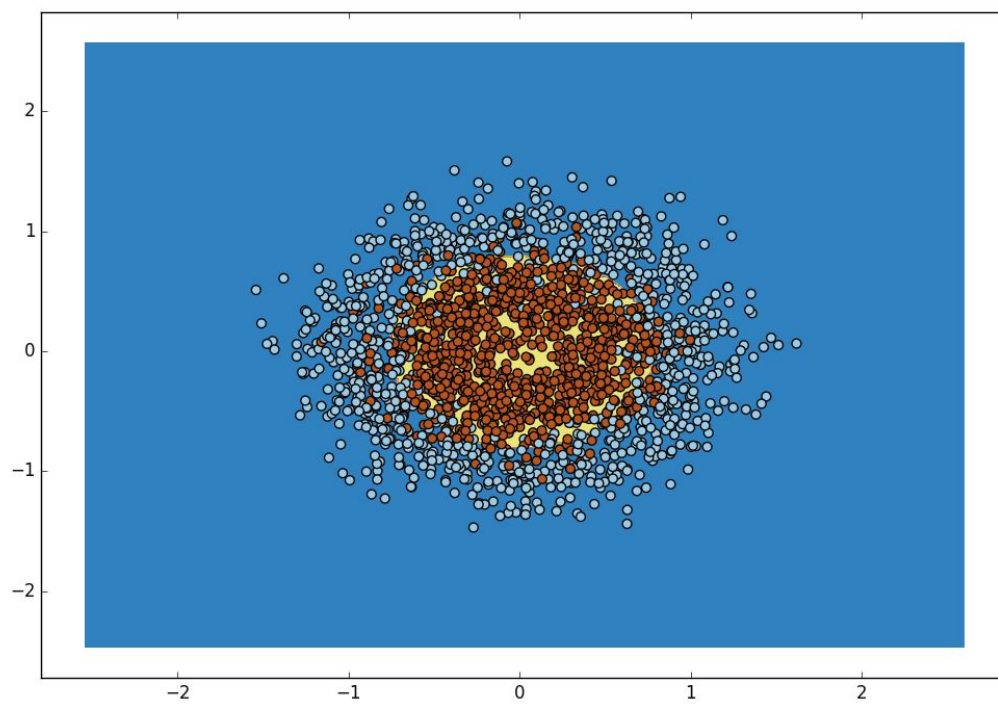
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- For the 1,2,4,5 data set I used rbf kernel with  $\gamma = 1.5$ . (for 2 and 4). The C value was kept as the default value of 1 for all except 4 for which it was 0.8. This is estimated using grid search manually.
- For data set 3 I used Linear SVM.

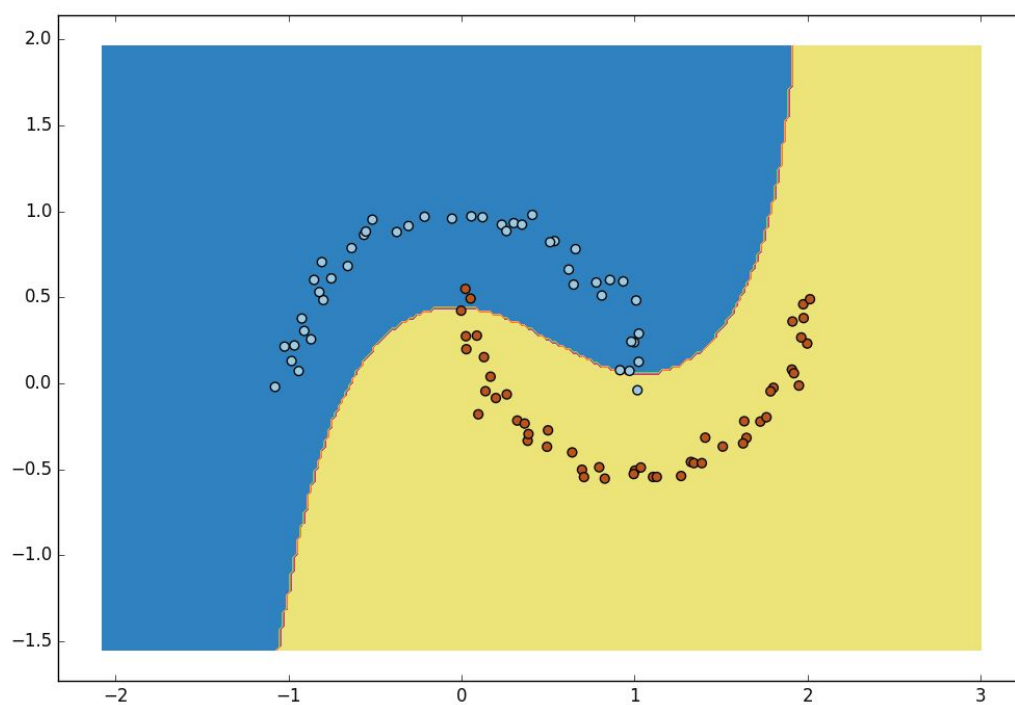
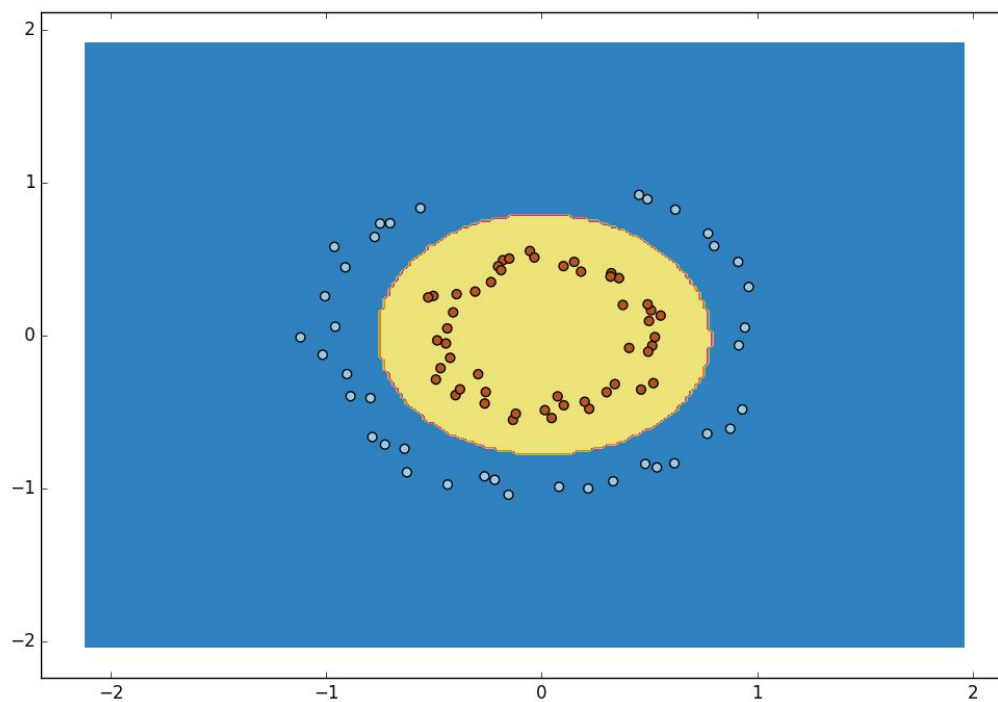
Without removing outliers:-

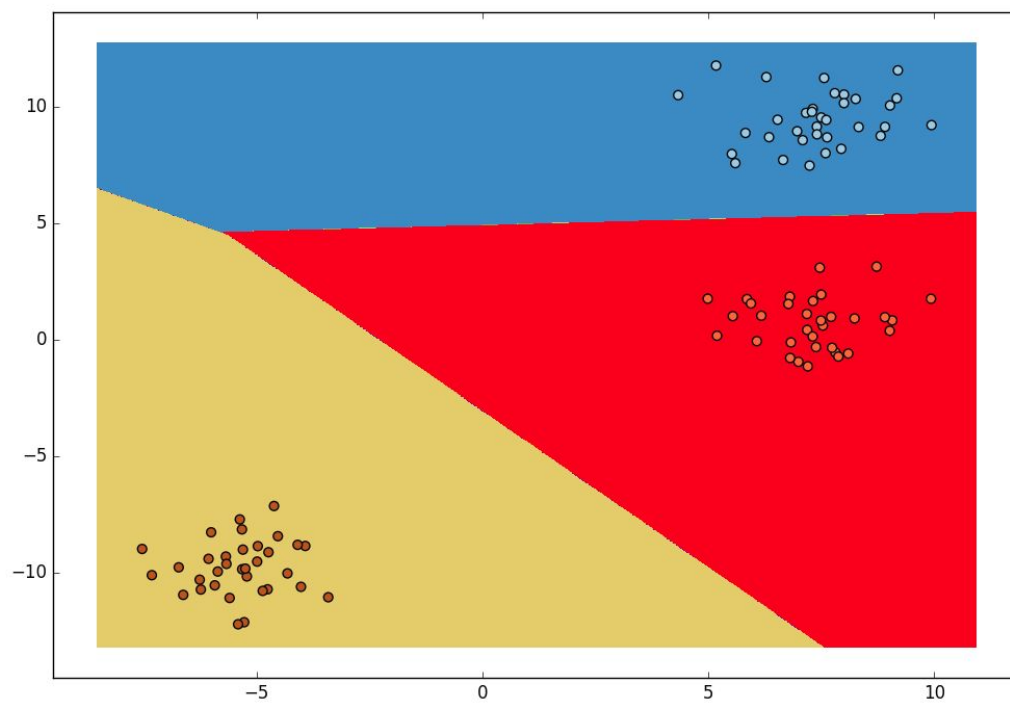


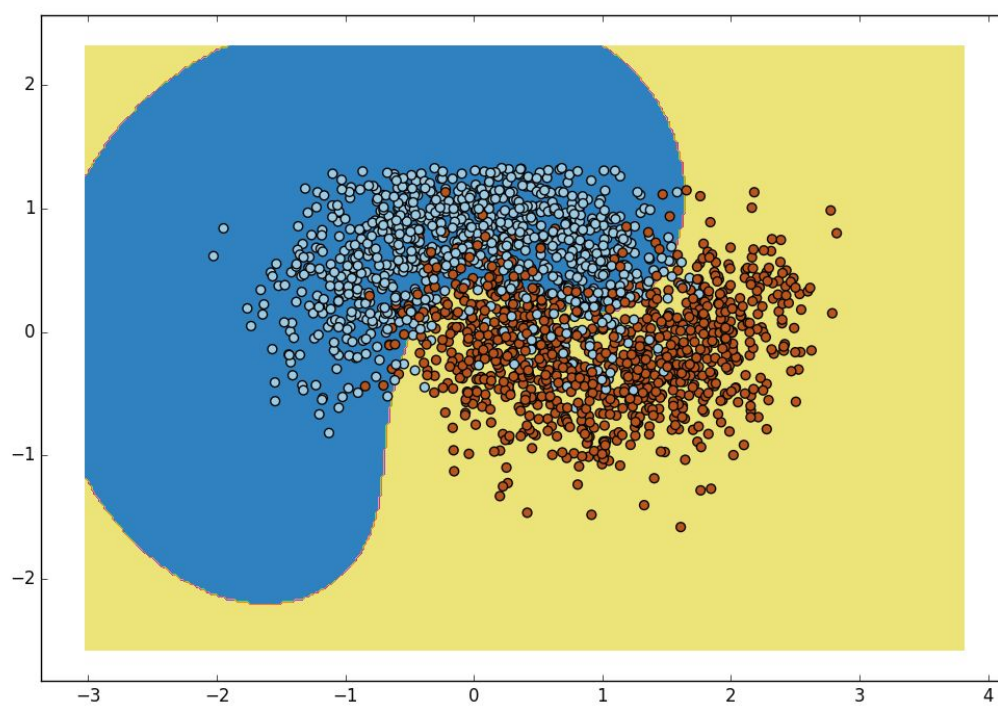
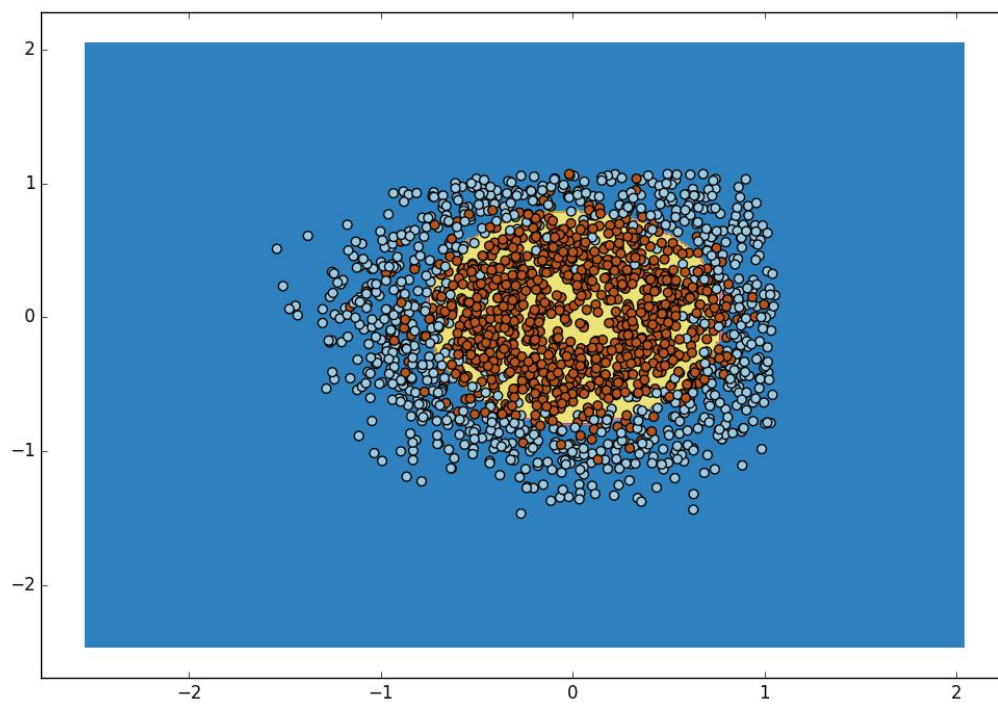




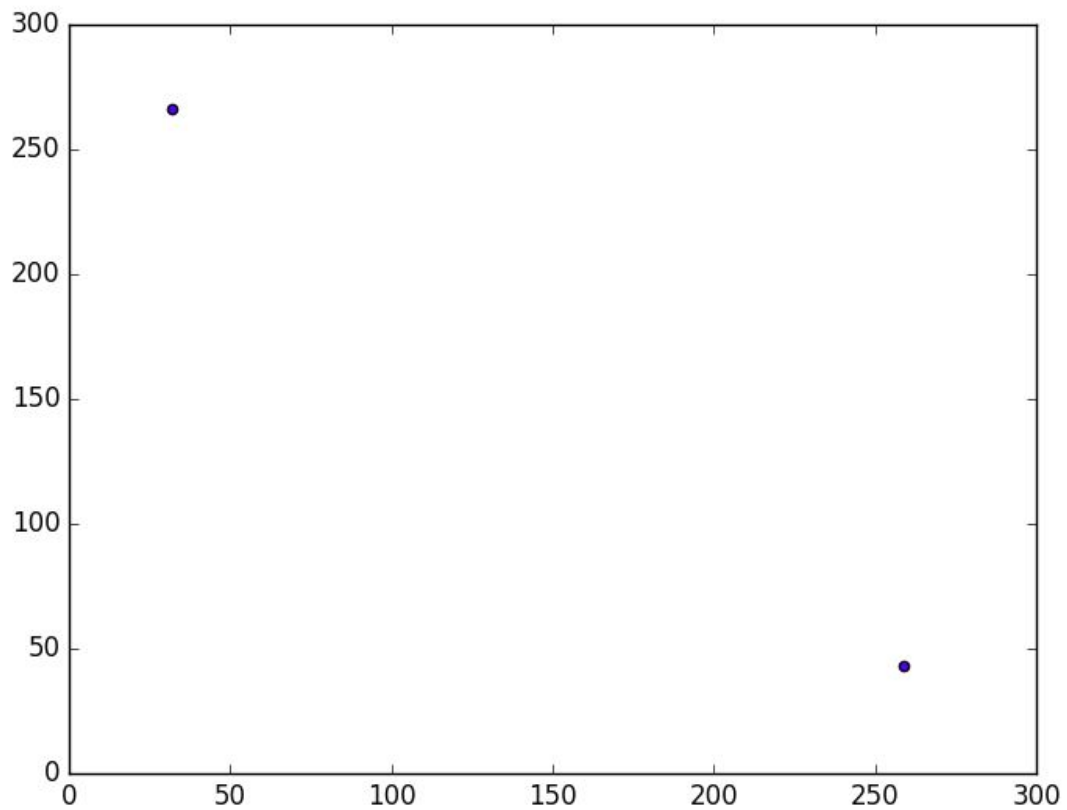
After removing outliers:-







The Confusion matrix looks as follows. I have printed the value of the confusion matrix along each classifier.



When compared to the classifiers used in the previous assignment:

- Decision trees and SVM perform almost equally.
- SVM perform better than naive bayes and logistic regression on almost all datasets.