Linear Regression and Support Vector Machine

Take the Geyser dataset for the classification task. Split it on train and test parts.
Train the Linear Regression model on it. To do it, you should convert labels to numbers, where a positive class (P) will be encoded by '+1', and a negative (N) by '-1'. Cast linear regression predictions backward to labels. Compare them with real labels and print F_1 score. Print the resulting equation of the line.
Consider an another dataset. Also split it on train and test parts.
For both datasets, train and test the SVM model on them. Try different kernels. For each kernel, find the best parameters for it and draw how the SVM model classify whole space with it. You can find an example here.
Compare the SVM results (by F_1 score) with the Linear Regression.