WE03-SVM

First: Develop a predictive model that predicts lawn mower ownership (use the RisingMower.csv data) using SVM classification and the three kernels demonstrated in class today. (we have yet to cover things like cross-validation and grid search - use the class material covered so far to address this problem). Display the results of each of these models (accuracy, precision, recall, and F1) and save the 'winning' model to a pickle file. (NOTE: Since this is a 'real' model you plan to deploy, be sure to include an appropriate train/test split into your modeling process)

Second: Create an application that asks the user for an income and lot size and answers if it's predicted that this property would own a lawnmower (also include the probability of this prediction). You can choose a text-based application or Web (see the examples I reviewed in Class 03).

Submit your model development notebook from the first step - and all files associated with your second step (if you choose to create a text-based interface, it's just on python file -- if you choose the web interface, then it's your template and the python file)