Relevance vector machines are kernel-based tools being explored for classification and regression problems in last few years. They use a probabilistic Bayesian learning framework for classification and has a number of advantages over the popular and state-of-the art tool support vector machines. During the last decade, ensemble methods have been proposed to achieve higher classification accuracies than the single methods by using multiple models and aggregating the results of each model. Boosting and bagging are the most common ensemble techniques and applied to many algorithms such as decision trees, perceptrons, k-nearest neighbor classifiers, etc. In this study, we will describe bbRVM package which implements the boosting and bagging ensembles of relevance vector machine classification. We will also give examples from real datasets to demonstrate the applicability of the package.