```
Call.
 randomForest(formula = price ~ ., data = df)
               Type of random forest: regression
                     Number of trees: 500
No. of variables tried at each split: 4
          Mean of squared residuals: 4134536
                    % Var explained: 93.65
> plot(m1)
> which.min(m1$mse)
[1] 97
> sqrt(m1$mse[which.min(m1$mse)])
[1] 2013.531
we can find which number of tress providing the lowest error rate and
the result is 97 trees providing an average car sales price error of
$2013.53
model randomforest <- train(price~., data = df, method = "rf",</pre>
trControl = trainControl("cv", number = 13), importance = TRUE)
model randomforest$bestTune
mtry
model randomforest$finalModel
Call:
```

No. of variables tried at each split: 7 Mean of squared residuals: 4177836

% Var explained: 93.58

#in this method, we used the caret workflow, which invoked the randomforest() function to automatically select the optimal number(mtry) [which is 7] of predictor variables randomly sampled as candidates at each split

randomForest(x = x, y = y, mtry = param\$mtry, importance = TRUE)Type of random forest: regression Number of trees: 500

```
> varImp(m1)
                 Overall
highwaympg
              1109093447
              1722186229
citympg
peakrpm
               122418726
              1462668319
horsepower
compressionratio 109739950
stroke
                65811137
               167225932
bore
enginesize
             3285178939
             2191885663
curbweight
height
                79562142
width
               884431084
length
               488106057
wheelbase 389420029
Warning messages:
```