**Interpretations:**

**Decision Tree**

1. The accuracy of the decision tree does not have any notable change even after pruning the tree. But after pruning precision has reduced 6% and recall has increased 11%. This shows that after pruning, number of false positive have increased and number of false negatives have increased.
2. Since the accuracy does not have a notable change, we can assume that the false negative and false positive have changed proportionately after pruning in an inversely proportional manner.
3. Glucose, age and BMI are the important predictors.

**Random Forest**

1. Glucose and BMI are the important predictors of the model.
2. The OOB error rate, YES error rate (classifying as having diabetes but actually not having diabetes), NO (classifying as not having diabetes but actually having diabetes) reduced as the number of trees increased. But the values almost stabilized just after 25 trees.
3. The accuracy of the model is 77%, precision is 80%, Recall is 86%. These values are almost same as the Logistic regression and Decision Tree models tried on the data set previously.