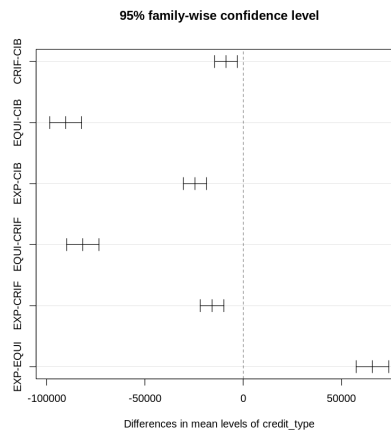
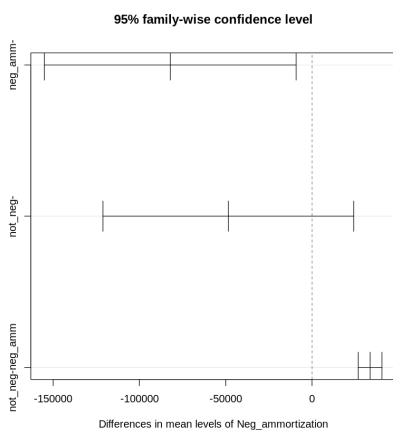


The differences in mean levels of loan type for rate of interest are significantly different.

It was also found that age and loan type are significantly associated with each other.

Two-way ANOVA was used to analyse the group variances and comparison among the group means was done using Tukey HSD method.

- The property value varies with amortization status-ammortized or negatively ammortized. The average property value differs with credit type.



## ● Loan Default Prediction using Logistic Regression with 86% accuracy.

The accuracy obtained with the logistic regression model is 86.5% which is much greater than the baseline model accuracy, which is 75%.

The closer the curve comes to the 45-degree diagonal of the ROC space, the less accurate the test. Observing the above ROC curve, we can see that curve is far from 45 degree line, which suggests high performance of the model.

- The main influential factors that can be used to explain the variance of the data with respect to the applicant is inflow and outflow.

Inflow here contains factors like income and debt-to-income ratio which tells about the credit worthiness. Whereas, Outflow contains the loan amount(to pay) and property value(to purchase) , in other words, liability.

