**Solution Design**

We implemented logistic regression algorithm on sample data of 2000 observations of 50 trains.

Flow of Solution –

1. read dataset

2. use package “caTools “ to split dataset for training and testing.

3. implemented the logistic regression model on training data with glm() function

With RESULT as dependent variable and all other attributes as independent variables.

4. Analyze the summary of model its null deviance ,residual deviance.

5. now make prediction on testing dataset using predict() function .

6. set a threshold of 0.5 to plot confusion matrix .

7. plot ROCR curve of model using ROCR , gplots package.

8. Estimated the accuracy of model.

ROCR CURVE

