#genre\_analysis\_of\_movies$Genre=factor(genre\_analysis\_of\_movies$Genre,levels = c("Romance","Action","Adventure","War","Horror","SciFi","Comedy","Western","Biography","Thriller","Crime","Drama","Animation","Musical","Fantasy"),labels = c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15))

#genre\_analysis\_of\_movies$Decade=factor(genre\_analysis\_of\_movies$Decade,levels = c("90's","00's","10's"),labels = c(01,02,03))

set.seed(123)

split=sample.split(genre\_analysis\_of\_movies$IMDBRating,SplitRatio = 0.75)

training\_set=subset(genre\_analysis\_of\_movies,split==TRUE)

test\_set=subset(genre\_analysis\_of\_movies,split==FALSE)

svmmodel=svm(Genre~BoxofficeCollection+IMDBRating,data=genre\_analysis\_of\_movies)

plot(svmmodel,genre\_analysis\_of\_movies,BoxofficeCollection~IMDBRating)

