#logistric regression

#read data file

mydata<-read.csv(file.choose(),header=T)

str(mydata)

mydata$X<-as.factor(mydata$X)

str(mydata)

mydata$time<-as.factor(mydata$time)

str(mydata)

mydata$status<-as.factor(mydata$status)

str(mydata)

mydata$sex<-as.factor(mydata$sex)

str(mydata)

mydata$age<-as.factor(mydata$age)

str(mydata)

mydata$year<-as.factor(mydata$year)

str(mydata)

mydata$thickness<-as.factor(mydata$thickness)

str(mydata)

mydata$ulcer<-as.factor(mydata$ulcer)

str(mydata)

xtabs(~X+time,data=mydata)

set.seed(1234)

ind<-sample(2,nrow(mydata),replace=T,prob=c(0.8,0.2))

train<-mydata[ind==2,]

test<-mydata[ind==2,]

mymodel<-glm(X~time+status+sex+age,data=train,family='binomial')

summary(mymodel)

p1<-predict(mymodel,train,type='response')

head(p1)

head(train)

head(test)

y<--26.57+(53.13\*10)

y

exp(y)/(1+exp(y))

y<--26.57+(53.13\*35)

exp(y)/(1+exp(y))

ifelse(p1>0.5,1,0)

plot(test,train)

