rm=list(ls())

Insurance=read.csv("D:/Project Work/Insurance\_factor\_identification.csv")

View(Insurance)

dim(Insurance)

#Ans - 1

summary(Insurance)

#Ans - 2

cor(Insurance$Claims,Insurance$Payment)

cor(Insurance$Insured,Insurance$Payment)

plot(Insurance$Insured,Insurance$Payment)

plot(Insurance$Claims,Insurance$Payment)

#Ans - 3

lineModel = lm(Payment ~ ., data = Insurance)

summary(lineModel)

#Ans - 4

?apply

ZoneResult = apply(Insurance[,c(5,6,7)],2, function(x)tapply(x, Insurance$Zone, mean))

ZoneResult

KmResult = apply(Insurance[,c(5,6,7)],2, function(x)tapply(x, Insurance$Kilometres, mean))

KmResult

BonusResult = apply(Insurance[,c(5,6,7)],2, function(x)tapply(x, Insurance$Bonus, mean))

BonusResult

#Ans - 5

md = lm(Insurance$Claims ~ Insurance$Kilometres + Insurance$Zone + Insurance$Bonus + Insurance$Make + Insurance$Insured)

summary(md)