install.packages("DAAG")

install.packages("dplyr")

install.packages("GGally")

install.packages("tidyverse")

library(dplyr)

library(GGally)

library(tidyverse)

library(DAAG)

setwd("F:\\R\_documents\\")

Performance\_Indicator = read.csv(file = "F:\\R\_documents\\Excel\_UK.csv")

dim(Performance\_Indicator)

nrow(Performance\_Indicator)

ncol(Performance\_Indicator)

names(Performance\_Indicator)

str(Performance\_Indicator)

model <- lm(Performance\_Indicator ~ Government\_Effectivness+ Regulatory\_Quality,data=Performance\_Indicator)

summary(Performance\_Indicator)

model <- mpg~.disp + hp + drat + wt

fit <- lm(model, df)

fit

summary(fit)

anova(fit)

plot(fit)

cv.lm(df=mydata, fit, m=3) # 3 fold cross-validation

par(mfrow = c(1, 11), mar = c(4, 4, 2, 1))

boxplot( Performance\_Indicator[Performance\_Indicator$Government\_Effectivness=="Year", ]$Regulatory\_Quality="green",border="black")

boxplot(Performance\_Indicator$Government\_Effectivness ~ Performance\_Indicator$Regulatory\_Quality , col=3)

par(mfrow = c(1, 1), mar = c(4, 4, 2, 1))

plot( Performance\_Indicator$Government\_Effectivness, Performance\_Indicator$Regulatory\_Quality, col="orange")

hist(Performance\_Indicator ~ Government\_EffectivnessPe ~ rformance\_Indicator$Regulatory\_Quality,freq=TRUE)

hist(Performance\_Indicator$Year,freq=TRUE,col="blue",border="black",main="Performance\_Indicator",xlab="year",xlim=c(2009,2019),breaks=40)

plot(Performance\_Indicator$Government\_Effectivness~ Performance\_Indicator$Regulatory\_Quality)

boxplot(Performance\_Indicator$Government\_Effectivness~ Performance\_Indicator$Regulatory\_Quality)

par(mfrow=c(1,4))

with(Performance\_Indicator, plot(Performance\_Indicator ~ Government\_Effectivness + Regulatory\_Quality))

lm\_Performance\_Indicator <- lm(Performance\_Indicator ~ Government\_Effectivness + Regulatory\_Quality + Government\_Effectivness, data = Performance\_Indicator)

summary(lm\_Performance\_Indicator)

par(mfrow=c(2,2))

hist(lm\_Performance\_Indicator$residuals, main = "Histogram of Residuals", xlab= "Year")

plot(lm\_Performance\_Indicator$residuals, fitted(lm\_Performance\_Indicator))

qqnorm(lm\_Performance\_Indicator$residuals)

qqline(lm\_Performance\_Indicator$residuals)

par(mfrow=c(1,2))

hist(Performance\_Indicator$Government, xlab = "Performance\_Indicator (Performance\_Indicator Index)",

main = "Histogram of Performance\_Indicator")

hist(Performance\_Indicator$Government\_Effectivness, xlab = "Performance\_Indicator",

main = "Histogram of Performance\_Indicator")