# CLEAN ENVIROMENT

rm (list=ls())

# ReADING DATA IN R

datos<-read.table('household\_power\_consumption.txt',sep=";",nrows= 2075260, header=TRUE, quote= "", strip.white=TRUE, stringsAsFactors = FALSE, na.strings= "?")

# SUBSETTING

subdatos<- subset(datos, (datos$Date == "1/2/2007" | datos$Date== "2/2/2007"))

# CHANGE OF THE CLASS OF DATE VARIABLE (FROM CHARACTER TI DATE)

subdatos$Date <- as.Date(subdatos$Date, format = "%d/%m/%Y")

# COMBINING THE DATE AND TIME VARIABLE

subdatos$DateTime <- as.POSIXct(paste(subdatos$Date, subdatos$Time))

# PLOT 4

par(mfcol=c(2,2))

plot(subdatos$DateTime, subdatos$Global\_active\_power, type="l", ylab= "Global Active Power", xlab="")

plot(subdatos$DateTime, subdatos$Sub\_metering\_1, type="l", ylab= "Energy sub metering", xlab="")

lines(subdatos$DateTime, subdatos$Sub\_metering\_2, type="l", col="red")

lines(subdatos$DateTime, subdatos$Sub\_metering\_3, type="l", col="blue")

legend("topright", c("Sub\_metering\_1", "Sub\_metering\_2", "Sub\_metering\_3"), lty=1, col=c("black", "red", "blue"))

plot(subdatos$DateTime,subdatos$Voltage,type="l",ylab="Voltage",xlab="datetime")

plot(subdatos$DateTime,subdatos$Global\_reactive\_power,type='l',xlab="datetime",ylab="Global\_reactive\_power")

dev.copy(png, file="plot4.png", height=480, width=480)

dev.off()