Rcode for figure1

##R code for plot1

setwd("E:/statistics/coursera/repository/exploratorydataanalysis")

alldata<-read.csv2("household\_power\_consumption.txt")

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

subsetdata<-alldata[alldata$Date=="2007-2-1"|alldata$Date=="2007-2-2",]

subsetdata$Global\_active\_power<-as.numeric(levels(subsetdata$Global\_active\_power)[subsetdata$Global\_active\_power])

par(mar=c(5.1,5.1,4.1,1.5))

hist(subsetdata$Global\_active\_power,col="Red",main="Global Active Power",xlab="Global Active Power (kilowatts)",ylab="Frequency")

dev.copy(png,file="plot1.png")

dev.off()

Rcode for figure2

##R code for plot2

setwd("E:/statistics/coursera/repository/exploratorydataanalysis")

alldata<-read.csv2("household\_power\_consumption.txt")

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

subsetdata<-alldata[alldata$Date=="2007-2-1"|alldata$Date=="2007-2-2",]

subsetdata$Global\_active\_power<-as.numeric(as.character(subsetdata$Global\_active\_power))

y<-character()

y<-paste(as.character(subsetdata$Date),as.character(subsetdata$Time),sep=",")

subsetdata$Time<-strptime(y,"%Y-%m-%d,%H:%M:%S")

subsetdata$Time<-as.POSIXct(subsetdata$Time)

par(mar=c(5.1,5.1,4,1.5))

with(subsetdata,plot(subsetdata$Time,subsetdata$Global\_active\_power,xaxt="n",xlab="",ylab="Global Value Power(kilowatts)",type="n"))

axis(1,at=c(4,5,6),labels=c("Thur","Fri","Sat"))

lines(subsetdata$Time,subsetdata$Global\_active\_power)

dev.copy(png,file="plot2.png")

dev.off()

Rcode for figure3

setwd("E:/statistics/coursera/repository/exploratorydataanalysis")

alldata<-read.csv2("household\_power\_consumption.txt")

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

subsetdata<-alldata[alldata$Date=="2007-2-1"|alldata$Date=="2007-2-2",]

y<-character()

y<-paste(as.character(subsetdata$Date),as.character(subsetdata$Time),sep=",")

subsetdata$Time<-strptime(y,"%Y-%m-%d,%H:%M:%S")

subsetdata$Time<-as.POSIXct(subsetdata$Time)

subsetdata$Sub\_metering\_1<-as.numeric(levels(subsetdata$Sub\_metering\_1)[subsetdata$Sub\_metering\_1])

subsetdata$Sub\_metering\_2<-as.numeric(levels(subsetdata$Sub\_metering\_2)[subsetdata$Sub\_metering\_2])

subsetdata$Sub\_metering\_3<-as.numeric(levels(subsetdata$Sub\_metering\_3)[subsetdata$Sub\_metering\_3])

par(mar=c(5.1,5.1,4,1.5))

energy\_sub\_metering<-c(subsetdata$Sub\_metering\_1,subsetdata$Sub\_metering\_2,subsetdata$Sub\_metering\_3)

with(subsetdata,plot(subsetdata$Time, subsetdata$Sub\_metering\_1,xaxt="n",xlab="",ylab="Energy sub metering",type="l"))

points(subsetdata$Time,energy\_sub\_metering[1:2880],type="l")

points(subsetdata$Time,energy\_sub\_metering[2881:5760],type="l",col="Red")

points(subsetdata$Time,energy\_sub\_metering[5761:8640],type="l",col="Blue")

axis(1,at=c(4,5,6),labels=c("Thur","Fri","Sat"))

dev.copy(png,file="plot3.png")

dev.off()

Rcode for figure4

##Code for plot4

setwd("E:/statistics/coursera/repository/exploratorydataanalysis")

alldata<-read.csv2("household\_power\_consumption.txt")

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

subsetdata<-alldata[alldata$Date=="2007-2-1"|alldata$Date=="2007-2-2",]

y<-character()

y<-paste(as.character(subsetdata$Date),as.character(subsetdata$Time),sep=",")

subsetdata$Time<-strptime(y,"%Y-%m-%d,%H:%M:%S")

subsetdata$Time<-as.POSIXct(subsetdata$Time)

subsetdata$Sub\_metering\_1<-as.numeric(levels(subsetdata$Sub\_metering\_1)[subsetdata$Sub\_metering\_1])

subsetdata$Sub\_metering\_2<-as.numeric(levels(subsetdata$Sub\_metering\_2)[subsetdata$Sub\_metering\_2])

subsetdata$Sub\_metering\_3<-as.numeric(levels(subsetdata$Sub\_metering\_3)[subsetdata$Sub\_metering\_3])

par(mar=c(5.1,5.1,4,1.5),mfrow=c(2,2))

subsetdata$Global\_active\_power<-as.numeric(levels(subsetdata$Global\_active\_power)[subsetdata$Global\_active\_power])

{with(subsetdata,plot(subsetdata$Time,subsetdata$Global\_active\_power,xaxt="n",xlab="",ylab="Global Value Power(kilowatts)",type="n"))

axis(1,at=c(4,5,6),labels=c("Thur","Fri","Sat"))

lines(subsetdata$Time,subsetdata$Global\_active\_power)}

subsetdata$Voltage<-as.numeric(levels(subsetdata$Voltage)[subsetdata$Voltage])

{

with(subsetdata,plot(subsetdata$Time, subsetdata$Voltage,xaxt="n",xlab="Datetime",ylab="Voltage",type="l"))

axis(1,at=c(4,5,6),labels=c("Thur","Fri","Sat"))

}

energy\_sub\_metering<-c(subsetdata$Sub\_metering\_1,subsetdata$Sub\_metering\_2,subsetdata$Sub\_metering\_3)

{with(subsetdata,plot(subsetdata$Time, subsetdata$Sub\_metering\_1,xaxt="n",xlab="",ylab="Energy sub metering",type="l"))

points(subsetdata$Time,energy\_sub\_metering[1:2880],type="l")

points(subsetdata$Time,energy\_sub\_metering[2881:5760],type="l",col="Red")

points(subsetdata$Time,energy\_sub\_metering[5761:8640],type="l",col="Blue")

axis(1,at=c(4,5,6),labels=c("Thur","Fri","Sat"))}

subsetdata$Global\_active\_power<-as.numeric(levels(subsetdata$Global\_reactive\_power)[subsetdata$Global\_reactive\_power])

{

with(subsetdata,plot(subsetdata$Time, subsetdata$Global\_reactive\_power,xaxt="n",xlab="Datetime",ylab="Global\_reactive\_power",type="l"))

axis(1,at=c(4,5,6),labels=c("Thur","Fri","Sat"))

}

dev.copy(png,file="plot4.png")

dev.off()