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## Exploratory Data Analysis #

## Course Project 2         #

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## Question 4: Across the United States, how have emissions from coal combustion-related   #

## sources changed from 1999-2008?                                                          #

#################################################################################################

## Reads PM2.5 Emissions Data

NEI <- readRDS("./data/summarySCC_PM25.rds")

## Reads Source Classification Code Table

NCC <- readRDS("./data/Source_Classification_Code.rds")


## Setting up the PNG Devices

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

par(mfrow = c(1,1))


## with the lack of a better definition , selecting all codes which has either coal or

## comb(short for combustion) in the Short.Name column

cNCC<- subset(NCC, grepl("coal|comb", Short.Name, ignore.case = TRUE))

## Subsetting only the PM2.5 data realted to the coal and combustion codes

eUsa <- subset(NEI,NEI$SCC %in%  cNCC$SCC)

pmeUsa <- tapply(eUsa$Emissions, eUsa$year, sum)


pmeUsaDf <- data.frame(Year=unique(eUsa$year),Total=pmeUsa[])

plot(pmeUsaDf$Year, pmeUsaDf$Total, type="l", lwd=1, col="orange", ylab="Total Emissions",
xlab="Year",main="USA coal combustion")


## Closing the device

dev.off()
```