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## Exploratory Data Analysis #

## Course Project 2          #

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## Question 1 : Have total emissions from PM2.5 decreased in the United States from      #
## 1999 to 2008? Using the base plotting system, make a plot showing the total PM2.5      #
## emission from all sources for each of the years 1999, 2002, 2005, and 2008.          #
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## 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 with the dimensions

png(file="plot1.png",width=480,height=480)

par(mfrow = c(1,1))

pmEmmissions <- tapply(NEI$Emissions, NEI$year, sum)

## Converting to a Dataframe

pmEmmissionsDf <- data.frame(Year=unique(NEI$year),Total=pmEmmissions[])

## Plotting the graph

plot(pmEmmissionsDf$Year, pmEmmissionsDf$Total, type="l", lwd=1, ylab="Total Emissions",
xlab="Year",main="USA PM2.5 Emissions")

## Closing the device

dev.off()
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