交通数据分析与应用 R assignment1

学号：2331630

姓名：冯蕊

2023-11-14

# Task1

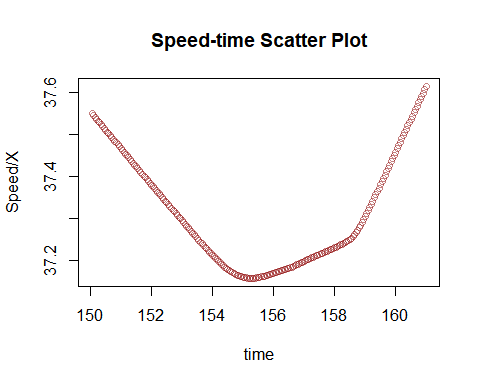
## Load your own .csv file into R, report the dimension of your data frame.

driving <- read.csv("driving.csv")  
driving |> dim()

## [1] 220 22

## Generate a scatter plot using the plot() function.

plot(x=driving[,1], y=driving[,2],   
 col=adjustcolor("darkred", 1/2),  
 xlab="time", ylab="Speed/X",  
 main = "Speed-time Scatter Plot")



# Task2

## Write a loop to calculate the mean value of a random numeric vector of length 50.

# Generate a random numeric vector  
vec <- rnorm(50)  
  
# Calculate the sum  
sum\_vec <- 0  
for (i in 1:length(vec)){  
 sum\_vec = sum\_vec + vec[i]  
}  
  
# Calculate the mean value  
mean\_v <- sum\_vec/length(vec)  
mean\_v

## [1] -0.08757967

## Verify that it is correct.

mean(vec)

## [1] -0.08757967