

A white background with black and white clouds

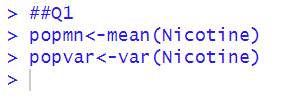
AI-generated content may be incorrect.

**Q1.**

##Q1

popmn<-mean(Nicotine)

popvar<-var(Nicotine)

****

**Q2.**

#Q2

samples<-c()

n<-c()

for (i in 1:30){

s<-sample(Nicotine,5,replace=TRUE)

samples<-cbind(samples,s)

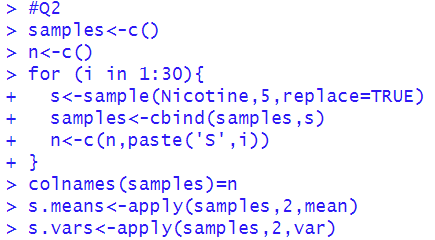
n<-c(n,paste('S',i))

}

colnames(samples)=n

s.means<-apply(samples,2,mean)

s.vars<-apply(samples,2,var)

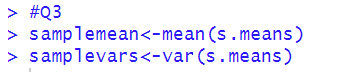
****

**Q3.**

#Q3

samplemean<-mean(s.means)

samplevars<-var(s.means)

****

**Q4.**

#Q4

popmn

samplemean

**A black text on a white background

AI-generated content may be incorrect.**

**Q5.**

#Q5

truevar=popvar/5

samplevars

**A close-up of numbers

AI-generated content may be incorrect.**

**Exercise**

**Q1.**

##Exercise

##Q1

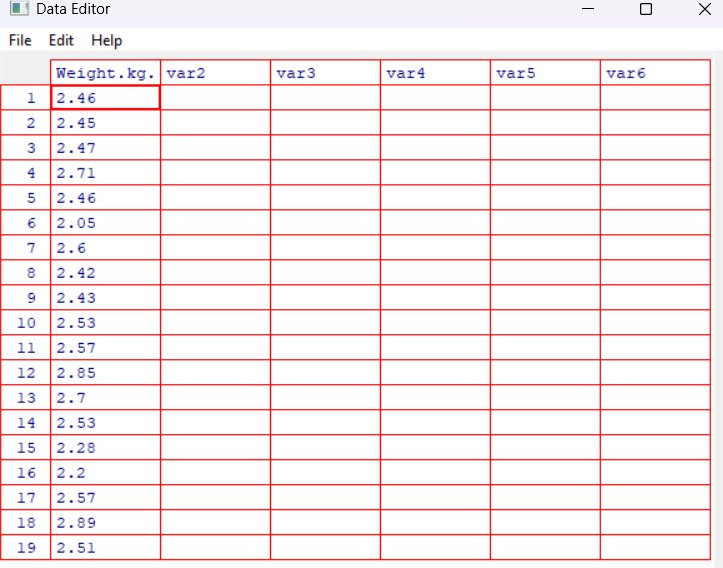
setwd("C:\\Users\\ASUS\\Desktop\\P&S\\IT24102725\_Lab08")

data<-read.table("Exercise - LaptopsWeights.txt",header=TRUE)

fix(data)

**A screenshot of a computer

AI-generated content may be incorrect.**

****

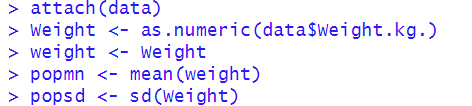
attach(data)

Weight <- as.numeric(data$Weight.kg.)

weight <- Weight

popmn <- mean(weight)

popsd <- sd(Weight)



**Q2.**

samples <- c()

n <- c()

for (i in 1:25) {

s <- sample(Weight, 6, replace = TRUE)

samples <- cbind(samples, s)

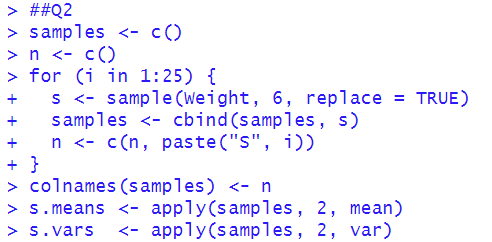
n <- c(n, paste("S", i))

}

colnames(samples) <- n

s.means <- apply(samples, 2, mean)

s.vars <- apply(samples, 2, var)



**Q3.**

#Q3

samplemean<-mean(s.means)

samplevars<-var(s.means)

