```r
setwd("C:\\Users\\it24100441\\Desktop\\IT24100441_Lab 08")
data <- read.table("Exercise - LaptopsWeights.txt", header = TRUE)
fix(data)
attach(data)
#Question 1
#Question 1
attach(data)
setwd("C:\\Users\\it24100441\\Desktop\\IT24100441_Lab 08")
data <- read.table("Exercise - LaptopsWeights.txt", header = TRUE)
fix(data)
attach(data)
#Question 1
population <- data$Weight
popvar <- var(population)
popsd <- sqrt(popvar)
print(paste("Population Mean:", popmn))
print(paste("Population SD:", popsd))
#Question 2
n <- c()
for (i in 1:25){
  s <- sample(population, 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)
s.sd <- sqrt(s.vars)
print(paste("Sample Mean:", s.means))
print(paste("Sample SD:", s.sd))
#Question 3
samplevars <- var(s.means)
samplesd <- sqrt(samplevars)
popmn
samplemean
truevar = popsd / 6
samplesd
truevar = popvar/6
samplevars
truesd<-sqrt(truevar)
samplesd
data <- read.table("Exercise - LaptopsWeights.txt", header = TRUE)
```