```
> getwd()
[1] "C:/Users/msi/AppData/Local/Microsoft/Windows/INetCache/IE/ONOF8NUV"
> setwd("C:\\Users\\msi\\Desktop\\Sliit Uni\\2 YR 1 Sem\\Probability and Statistics - IT2120\\Labs\\Lab 8")
> getwd()
[1] "C:/Users/msi/Desktop/Sliit Uni/2 YR 1 Sem/Probability and Statistics - IT2120/Labs/Lab 8"
> #importing the data set
> data <- read.table("Exercise - LaptopsWeights.txt", header=TRUE)</pre>
> fix(data)
> attach(data)
> #Q1
> popmn <- mean(Weight.kg.)</pre>
> popmn
[1] 2.468
> popvar <- var(Weight.kg.)</pre>
> popvar
[1] 0.06559077
> popsd <- sqrt(popvar)</pre>
> popsd
[1] 0.2561069
> #Q2
> samples<-c()
> n<-c()
> for (i in 1:25){
+ s<-sample(Weight.kg.,6,replace=TRUE)
    samples<-cbind(samples,s)</pre>
   n<-c(n,paste0('s',i))</pre>
+ }
> colnames(samples)=n
> s.means <- apply(samples, 2, mean)</pre>
> s.sds <- apply(samples, 2, sd)</pre>
```

```
> print(s.means <- apply(samples,2,mean))
    s1    s2    s3    s4    s5</pre>
2.521667 2.525000 2.493333 2.533333 2.508333 2.453333 2.568333 2.391667 2.646667 2.456667
                                                                      s18
     s11 s12 s13 s14 s15 s16
                                                                s17
                                                                                   s19
2.401667\ \ 2.451667\ \ 2.721667\ \ 2.560000\ \ 2.351667\ \ 2.478333\ \ 2.420000\ \ 2.638333\ \ 2.538333\ \ 2.458333
$21 $22 $23 $24 $25 $2.478333 2.610000 2.381667 2.450000 2.476667
                                             s25
> print(s.sds <- sd(s.sds))</pre>
[1] 0.07840902
> #Q3
> print(truemean <- mean(s.means))</pre>
[1] 2.5006
> print(truesd <- sd(s.sds))</pre>
[1] NA
> popmn
[1] 2.468
> truemean
[1] 2.5006
> popsd
[1] 0.2561069
> truesd
[1] NA
> |
```