Lab 08

Exercise

1.

```
setwd("C:\\Users\\it24100500\\Desktop\\IT24100500")
getwd()

data <- read.table("Exercise - LaptopsWeights.txt", he
fix(data)
attach(data)

popmn <- mean(weight.kg.)
popvar <- var(weight.kg.)
pop_dev <- sd (weight.kg.)
```

```
> setwd("C:\\Users\\it24100500\\Desktop\\IT24100500")
> getwd()
[1] "C:/Users/it24100500/Desktop/IT24100500"
> data <- read.table("Exercise - LaptopsWeights.txt", hea
r=TRUE)
> fix(data)
> attach(data)
> popmn <- mean(weight.kg.)
> popvar <- var(weight.kg.)
> pop_dev <- sd (weight.kg.)
```

data	40 obs. of 1 variable
Values	
pop_dev	0.256106948813907
popmn	2.468
popvar	0.0655907692307692

2.

```
11  samples <- c() #Q2
12  n <- c()
13
14  for(i in 1:25){
15    s <- sample(weight.kg.,6,replace=TRUE)
16    samples <- cbind(samples,s)
17    n <- c(n,paste('s',i))
18  }
19  colnames(samples) = n
20
21  s.means <- apply(samples,2,mean)
22  s.vars <- apply(samples,2,var)
23  s.dev <- apply(samples,2,sd)
24
```

3.

```
25  samplemean <- mean(s.means)
26  sampledev <- sd(s.means)
27
28  popmn
29  samplemean
30
31  pop_dev
32  sampledev
```

```
>
> popmn
[1] 2.468
> samplemean
[1] 2.457
>
> pop_dev
[1] 0.2561069
> sampledev
[1] 0.08929638
>
```